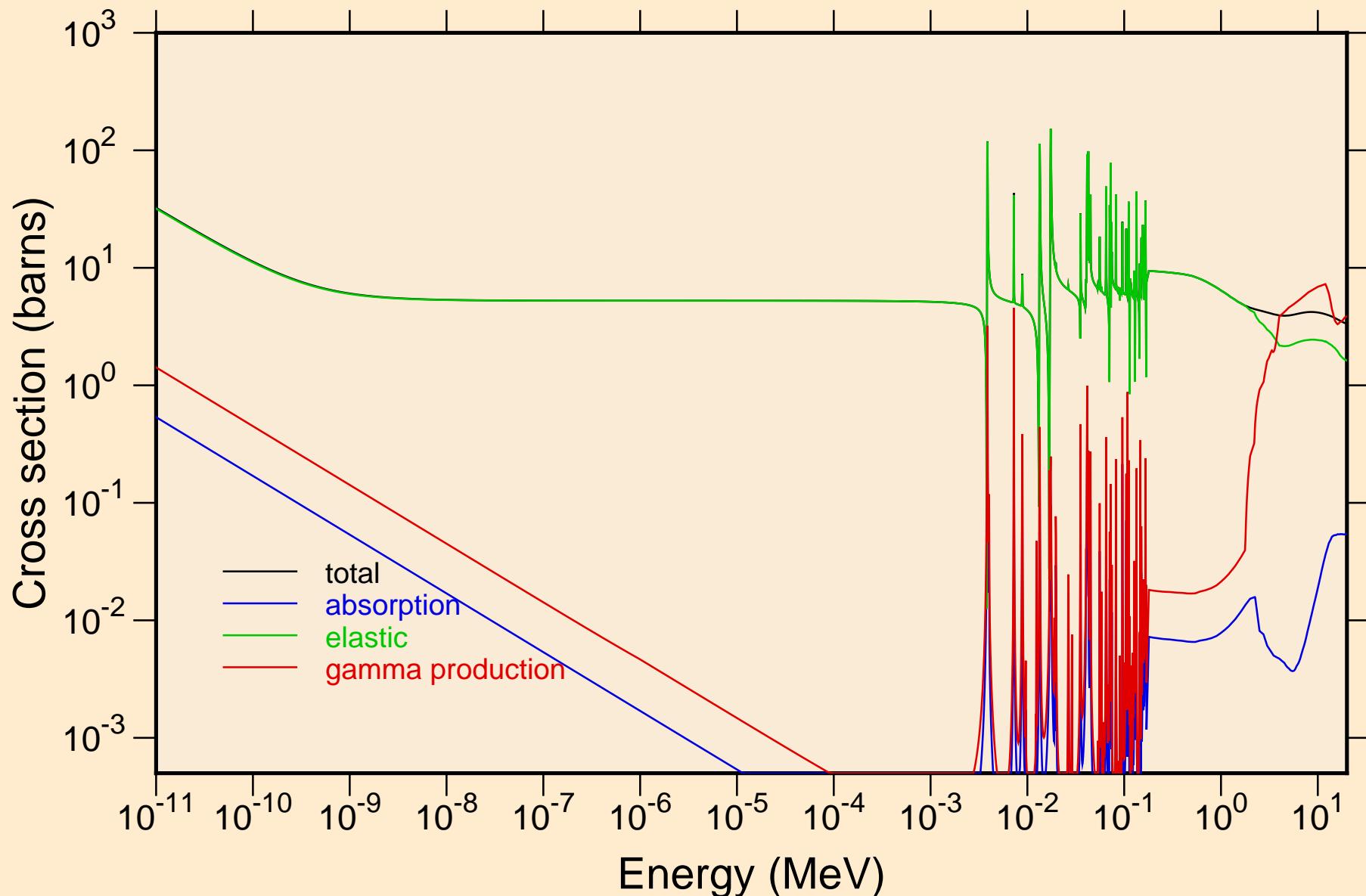
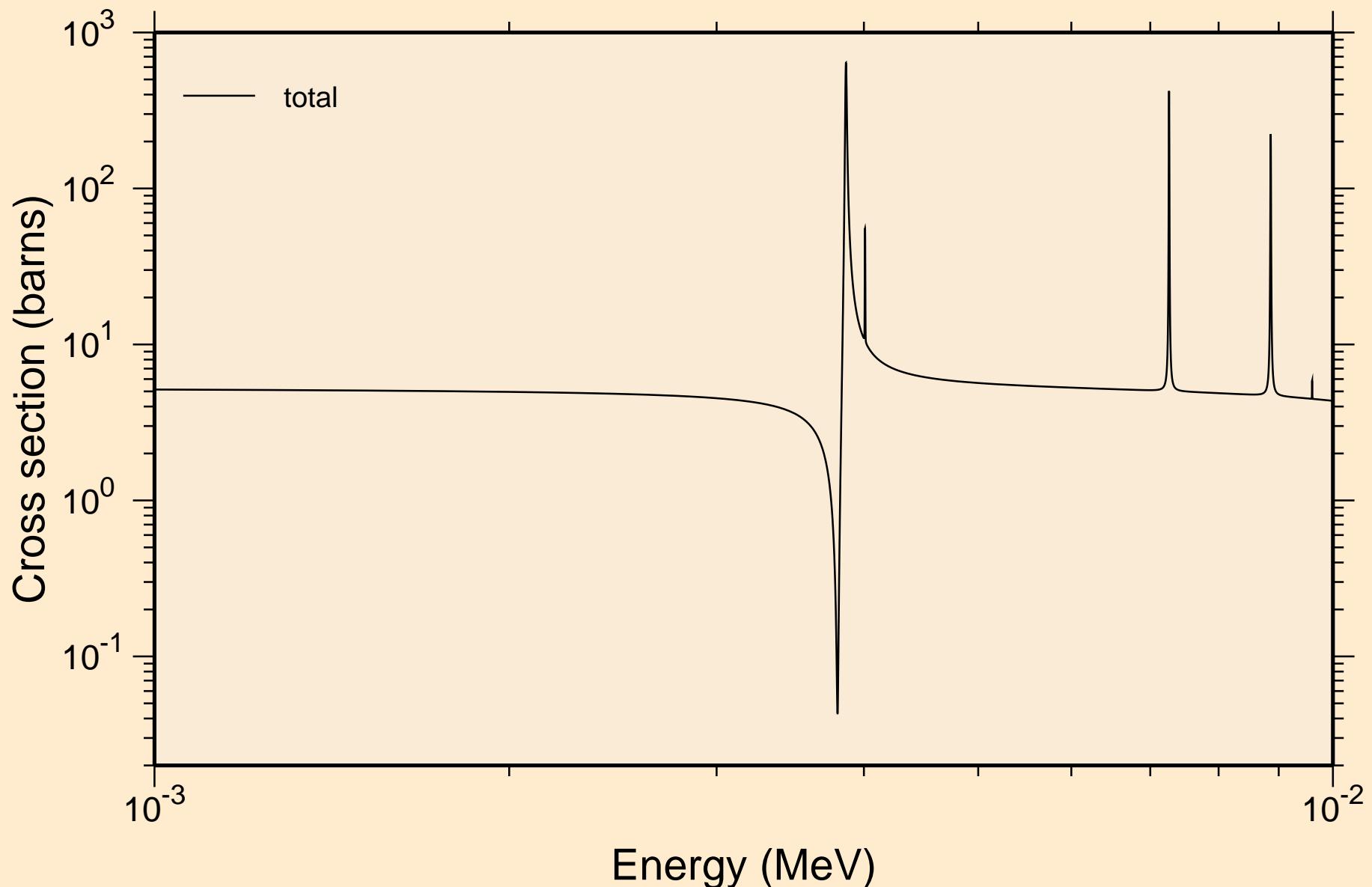


# JENDL-4 ZR-90

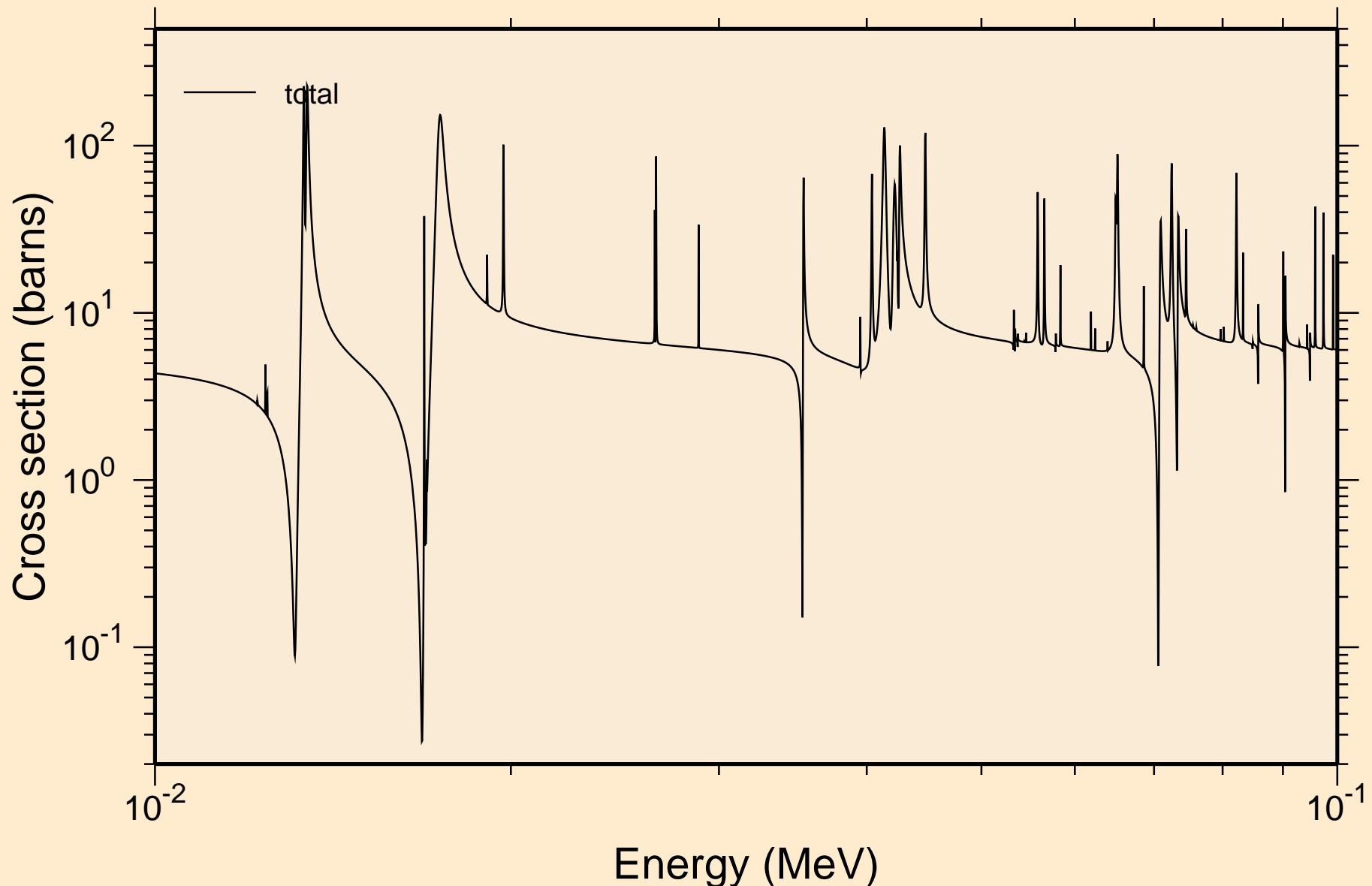
## Principal cross sections



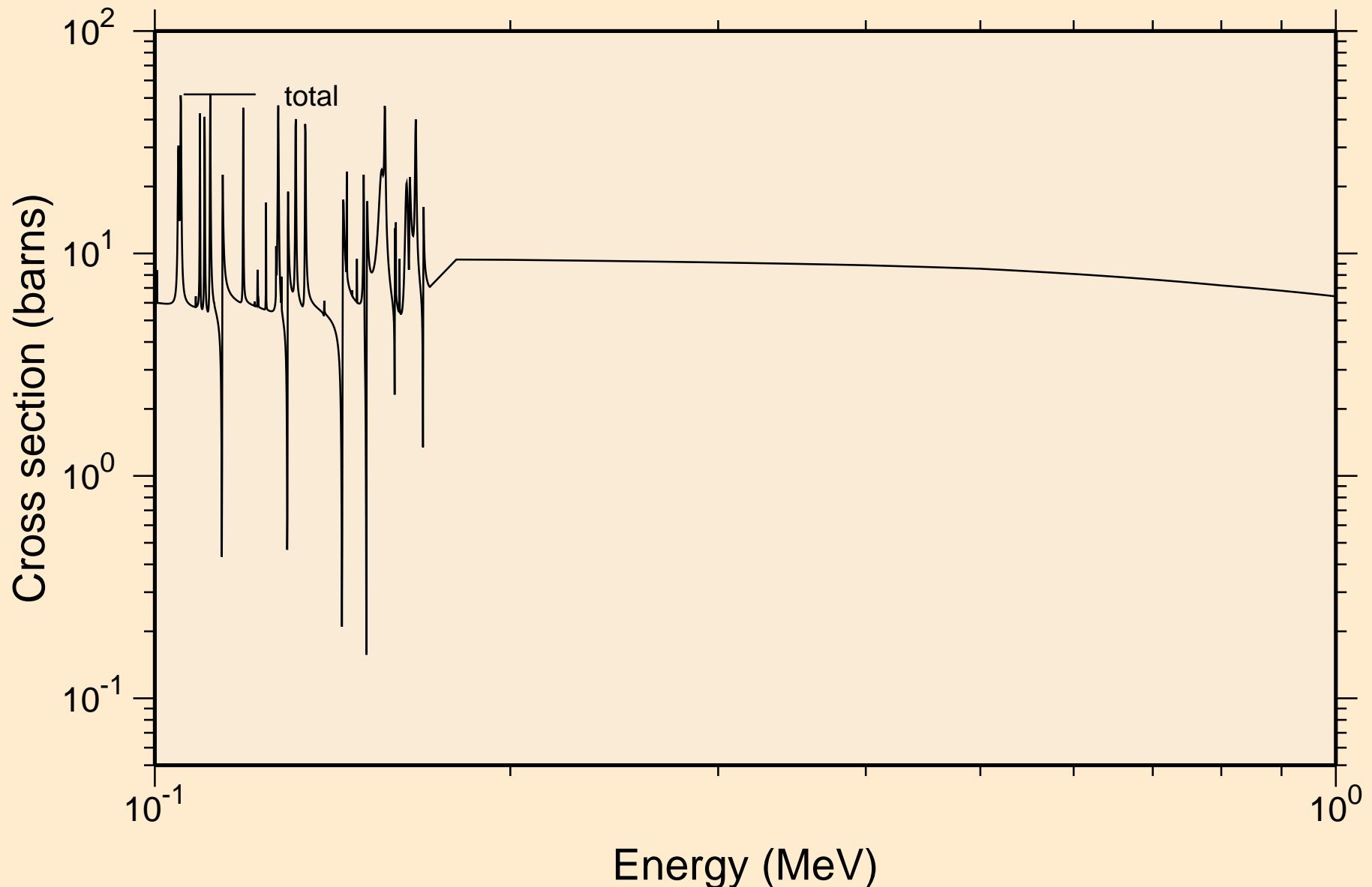
JENDL-4 ZR-90  
resonance total cross section



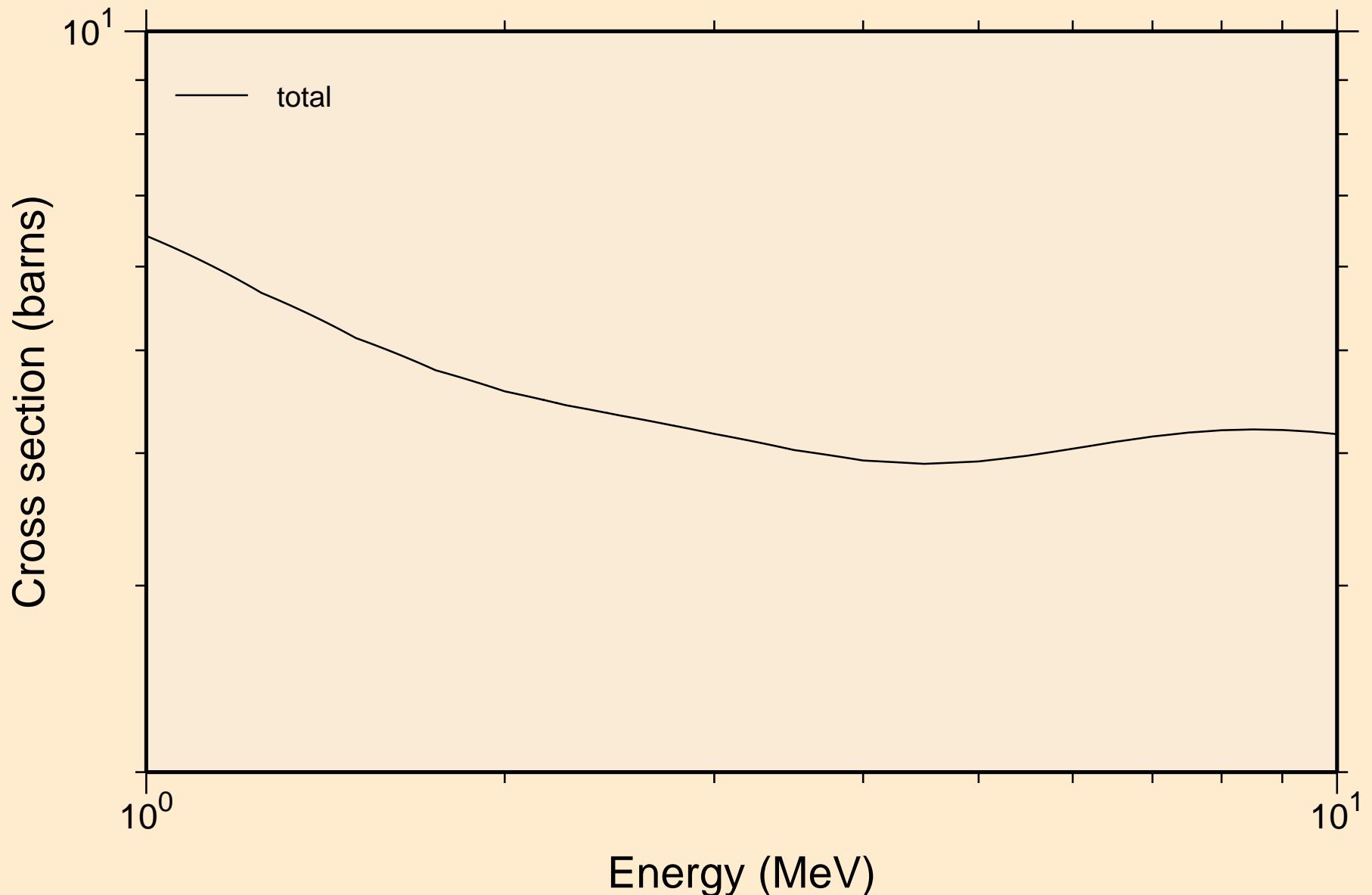
JENDL-4 ZR-90  
resonance total cross section



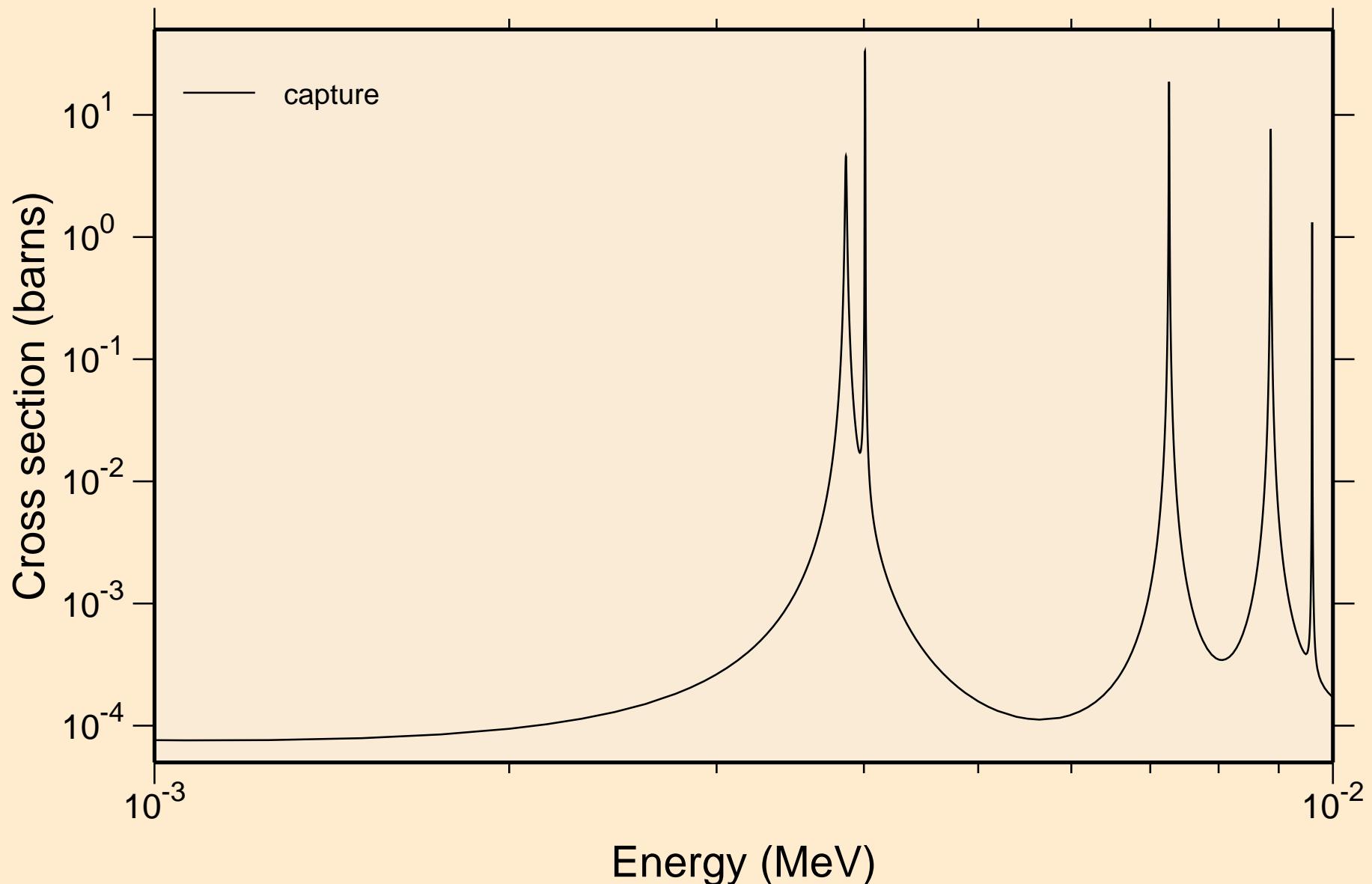
JENDL-4 ZR-90  
resonance total cross section



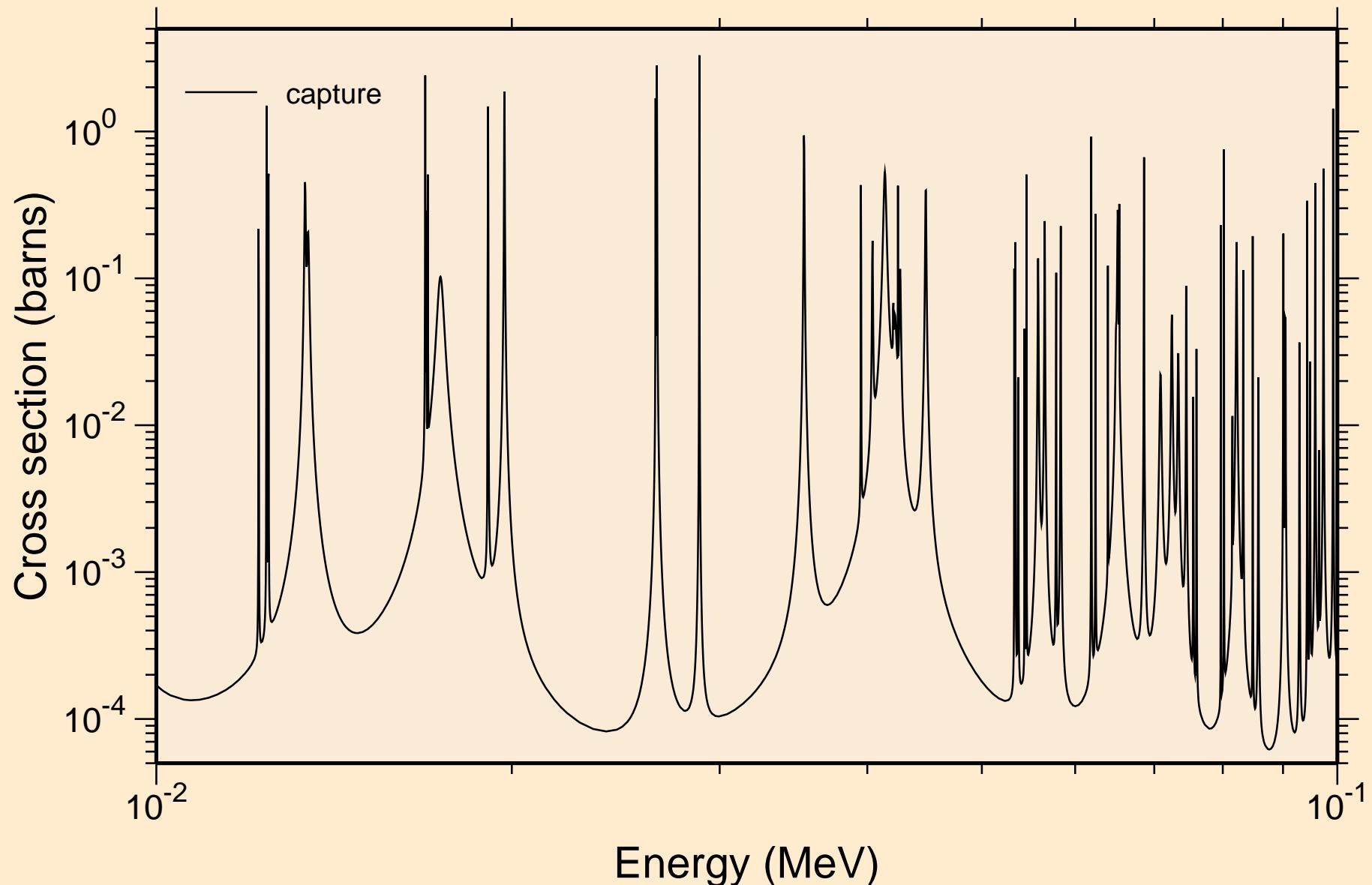
JENDL-4 ZR-90  
resonance total cross section



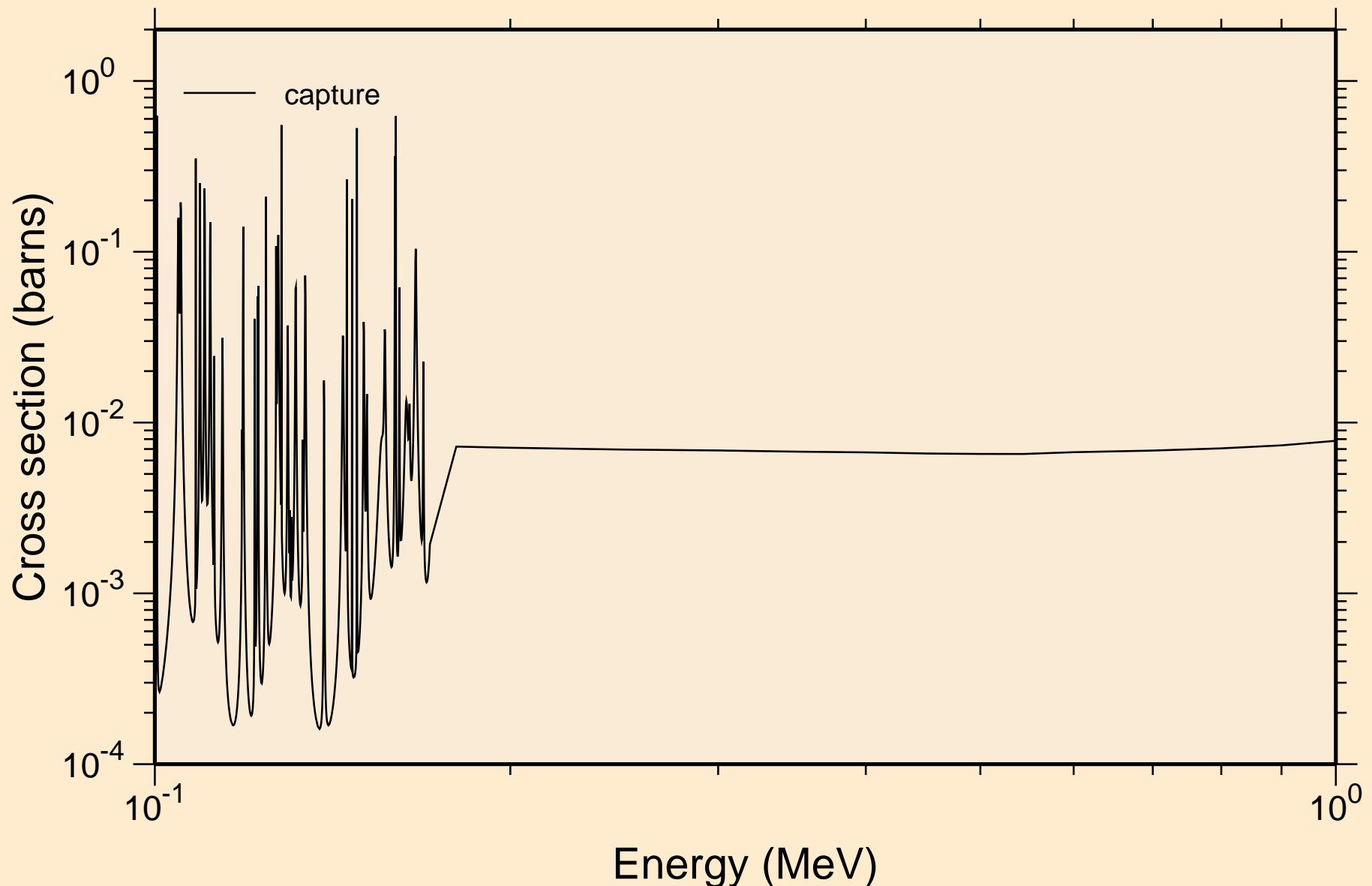
JENDL-4 ZR-90  
resonance absorption cross sections



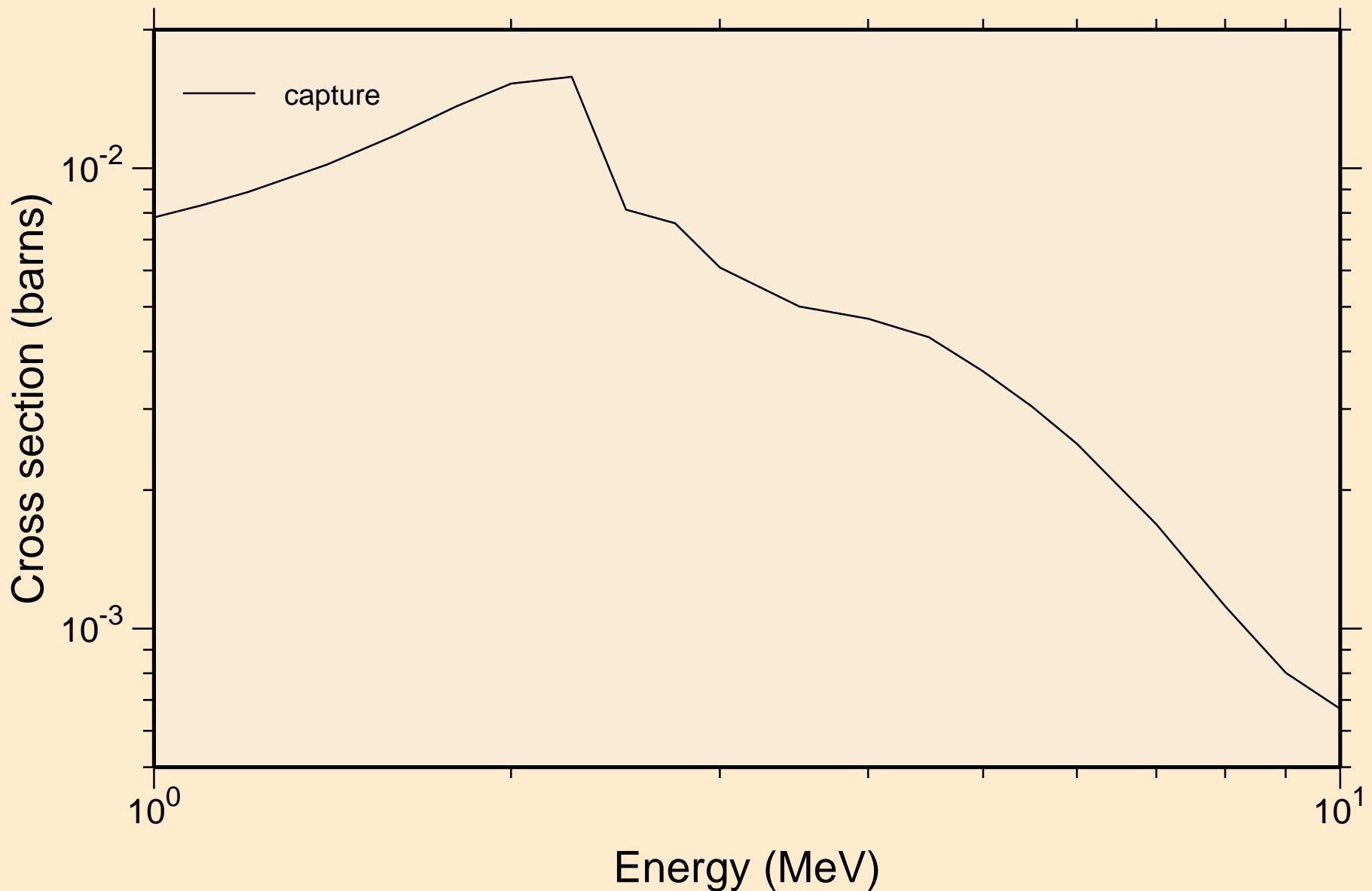
JENDL-4 ZR-90  
resonance absorption cross sections



JENDL-4 ZR-90  
resonance absorption cross sections

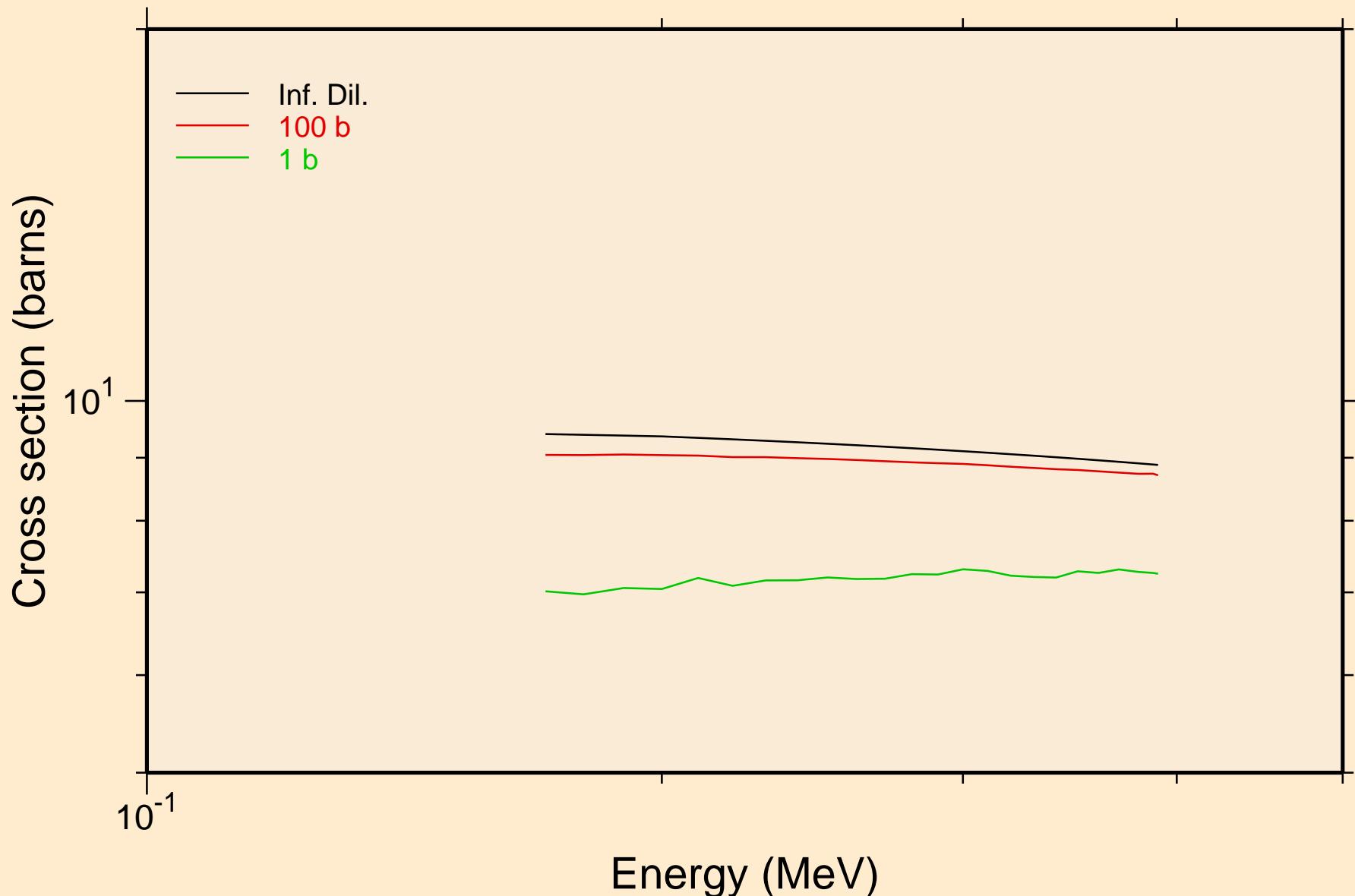


JENDL-4 ZR-90  
resonance absorption cross sections



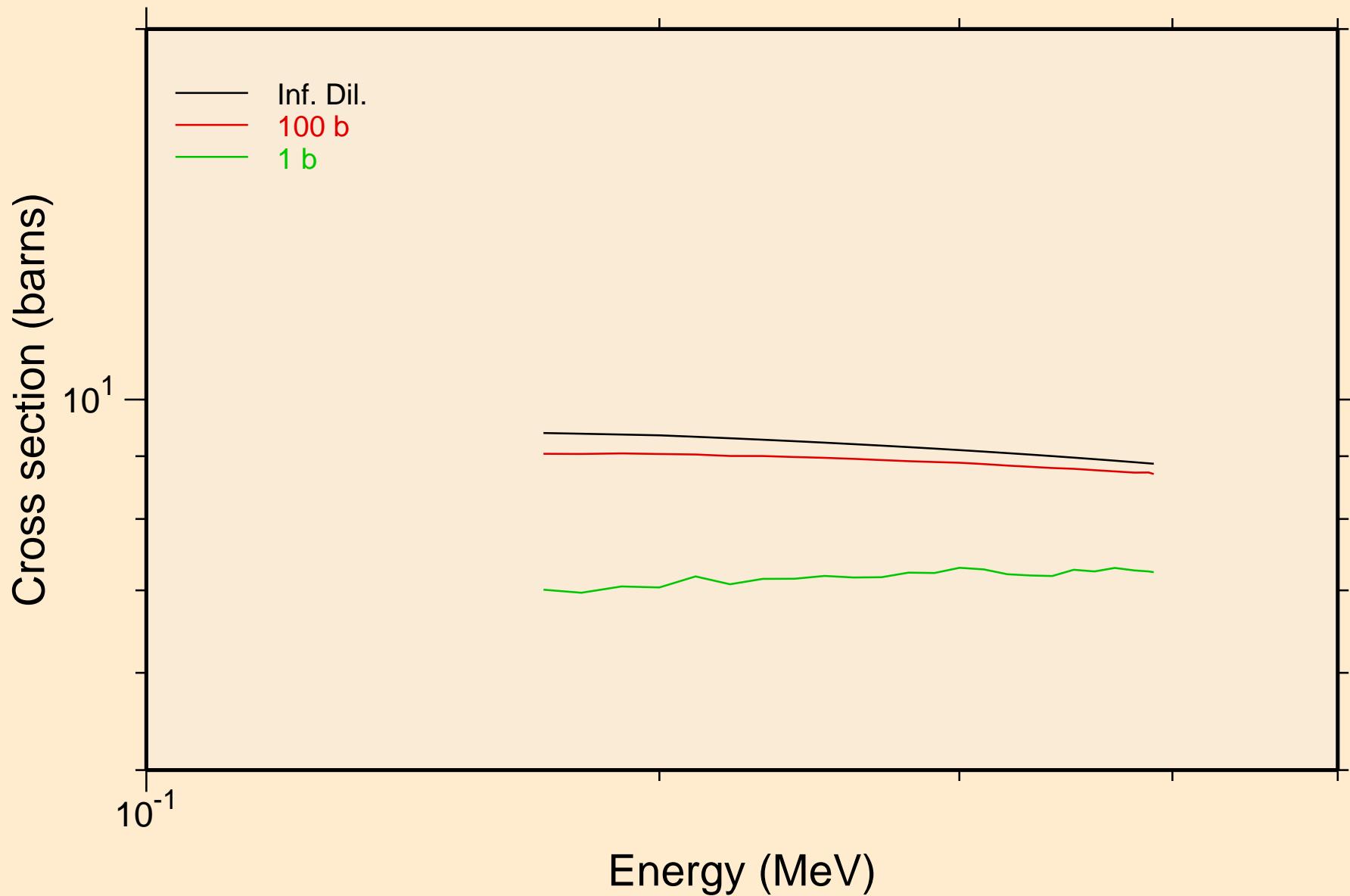
# JENDL-4 ZR-90

## UR total cross section

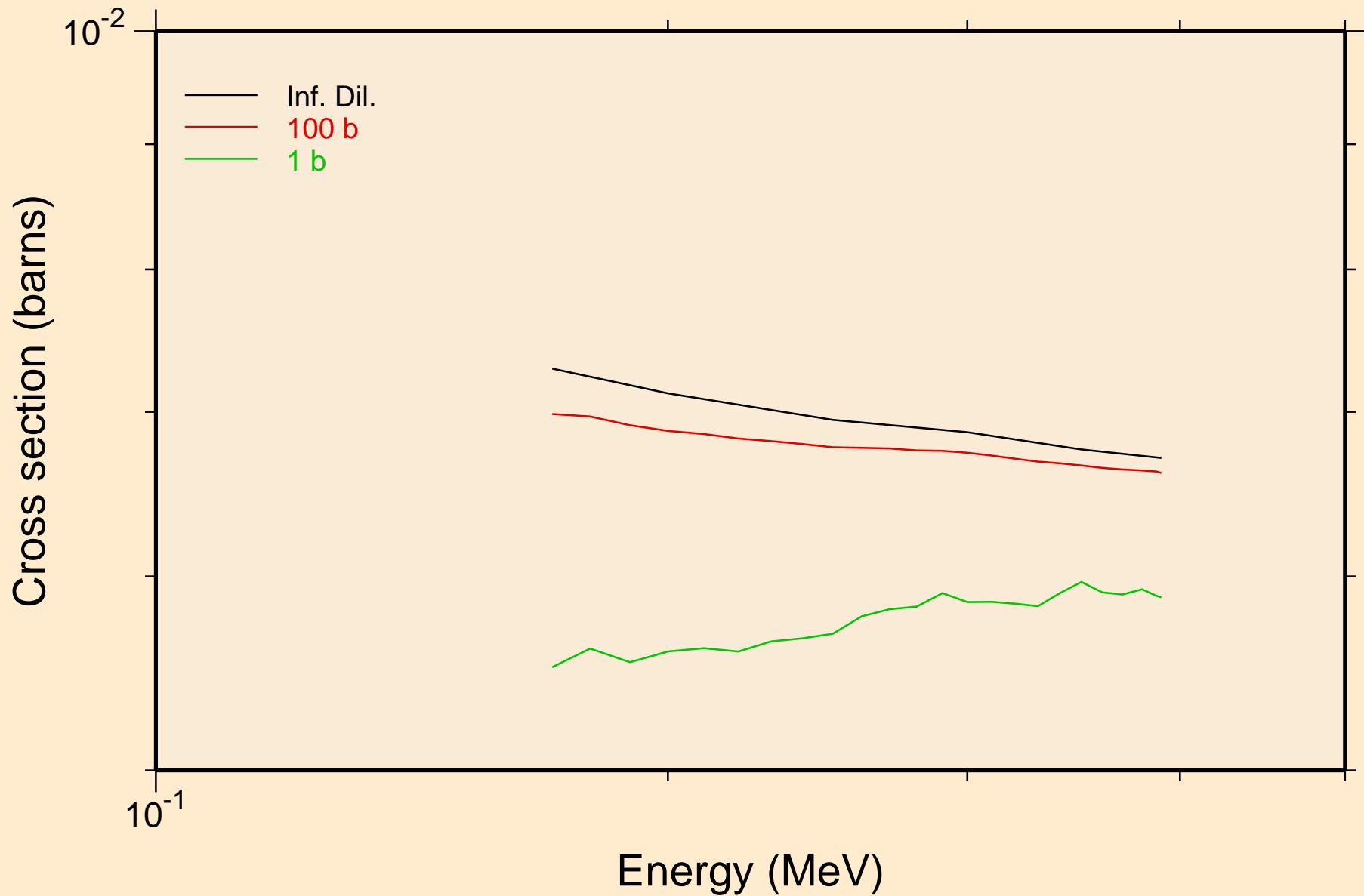


# JENDL-4 ZR-90

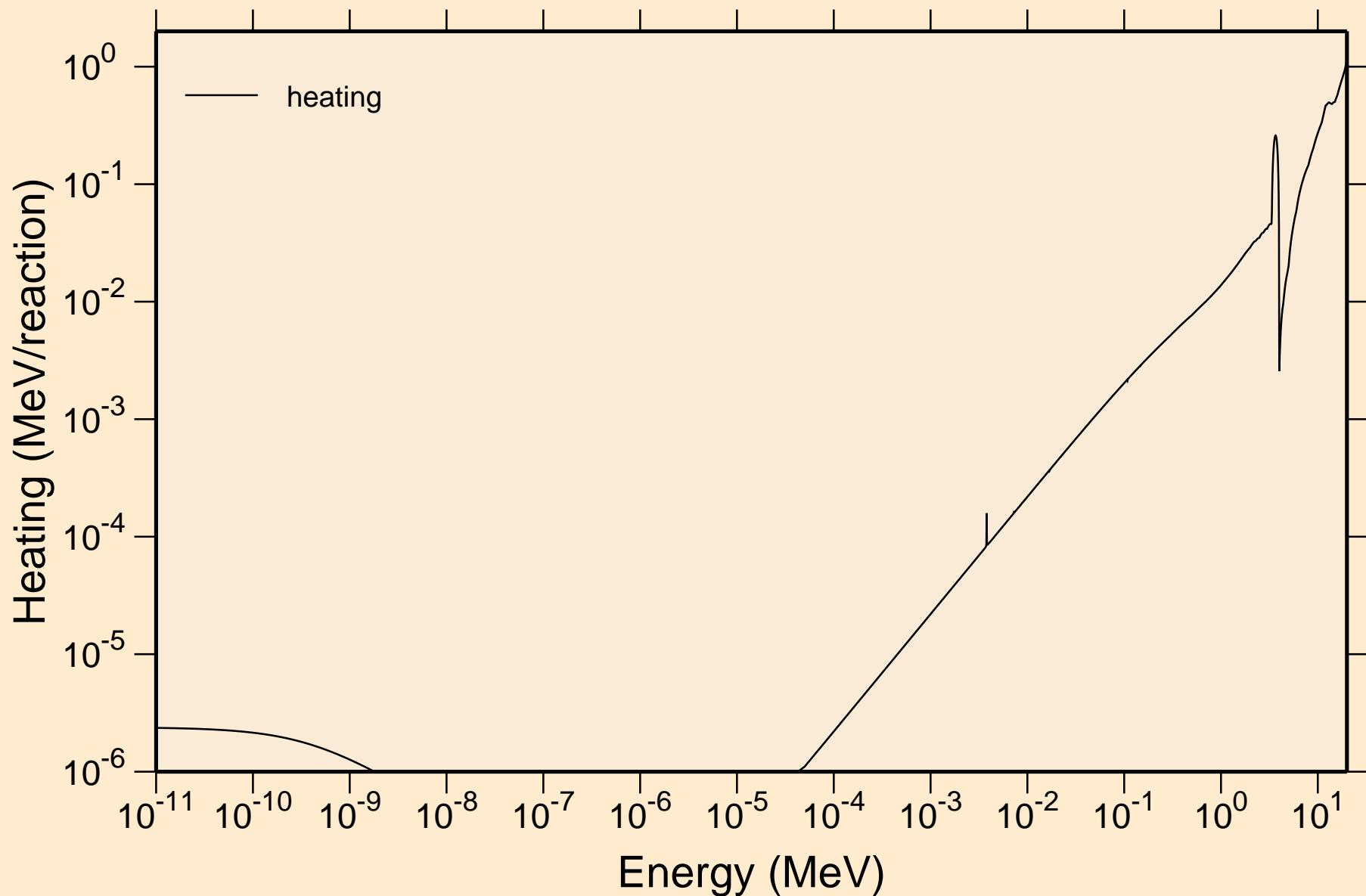
## UR elastic cross section



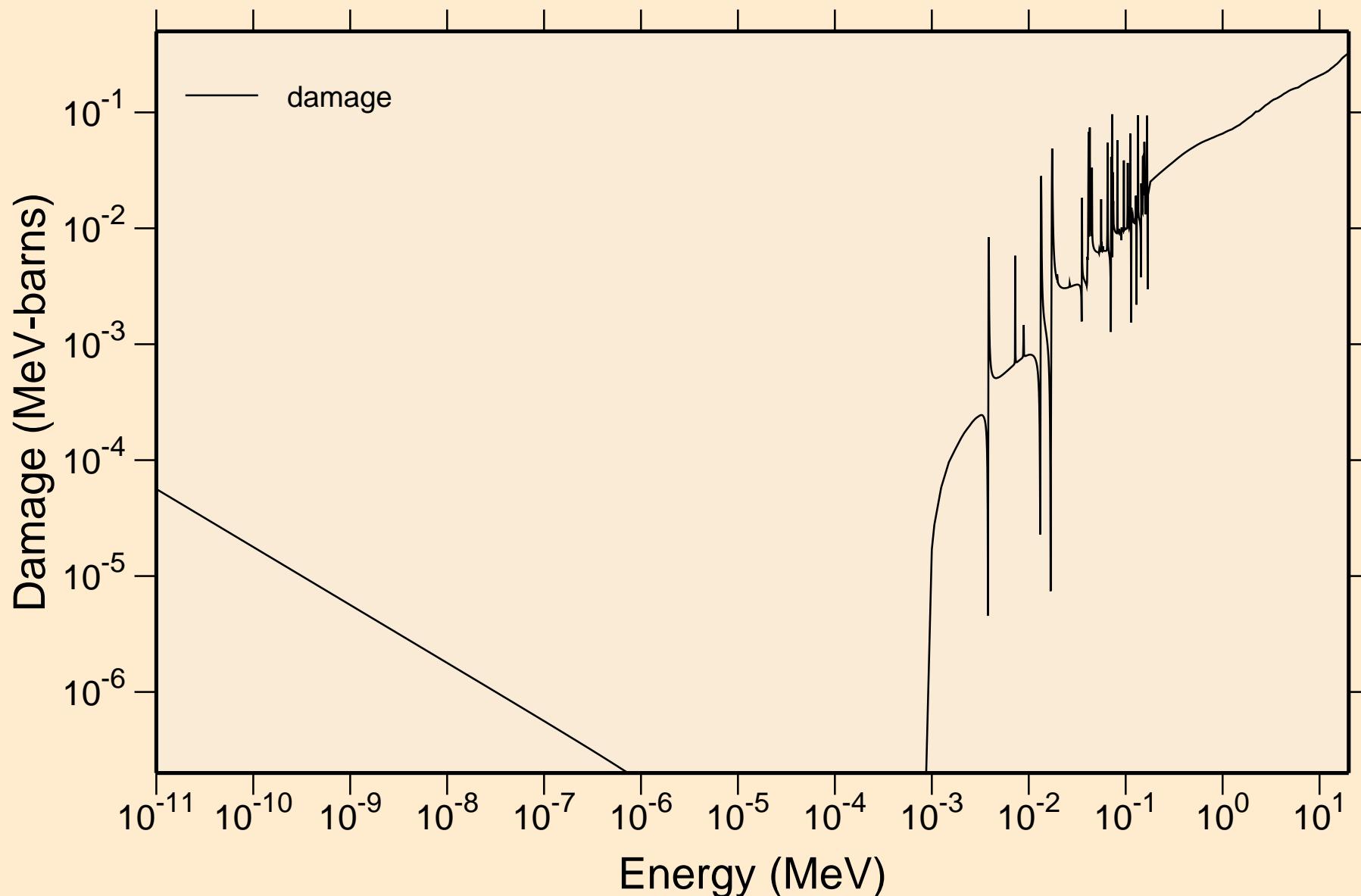
JENDL-4 ZR-90  
UR capture cross section



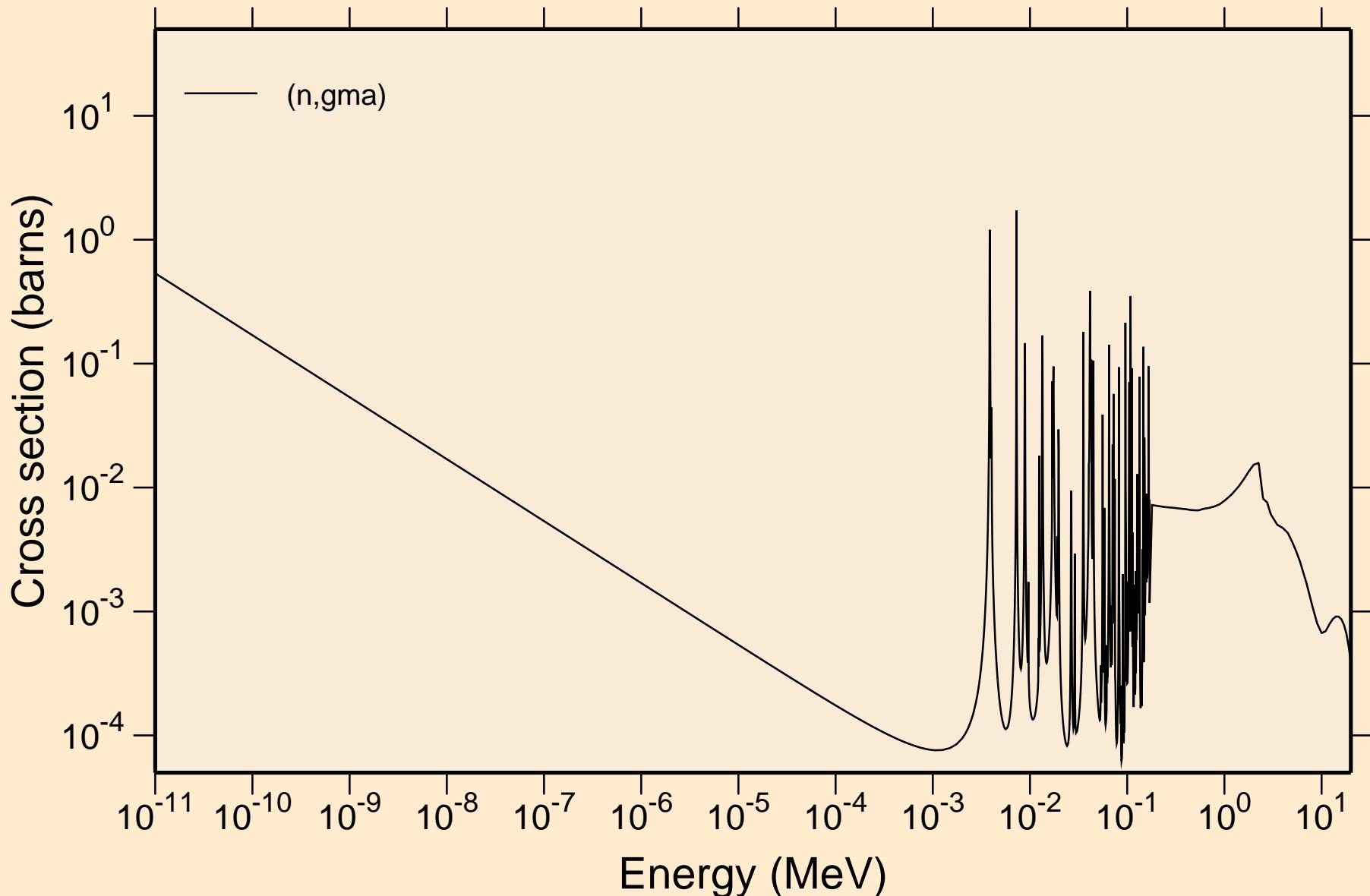
JENDL-4 ZR-90  
Heating



JENDL-4 ZR-90  
Damage

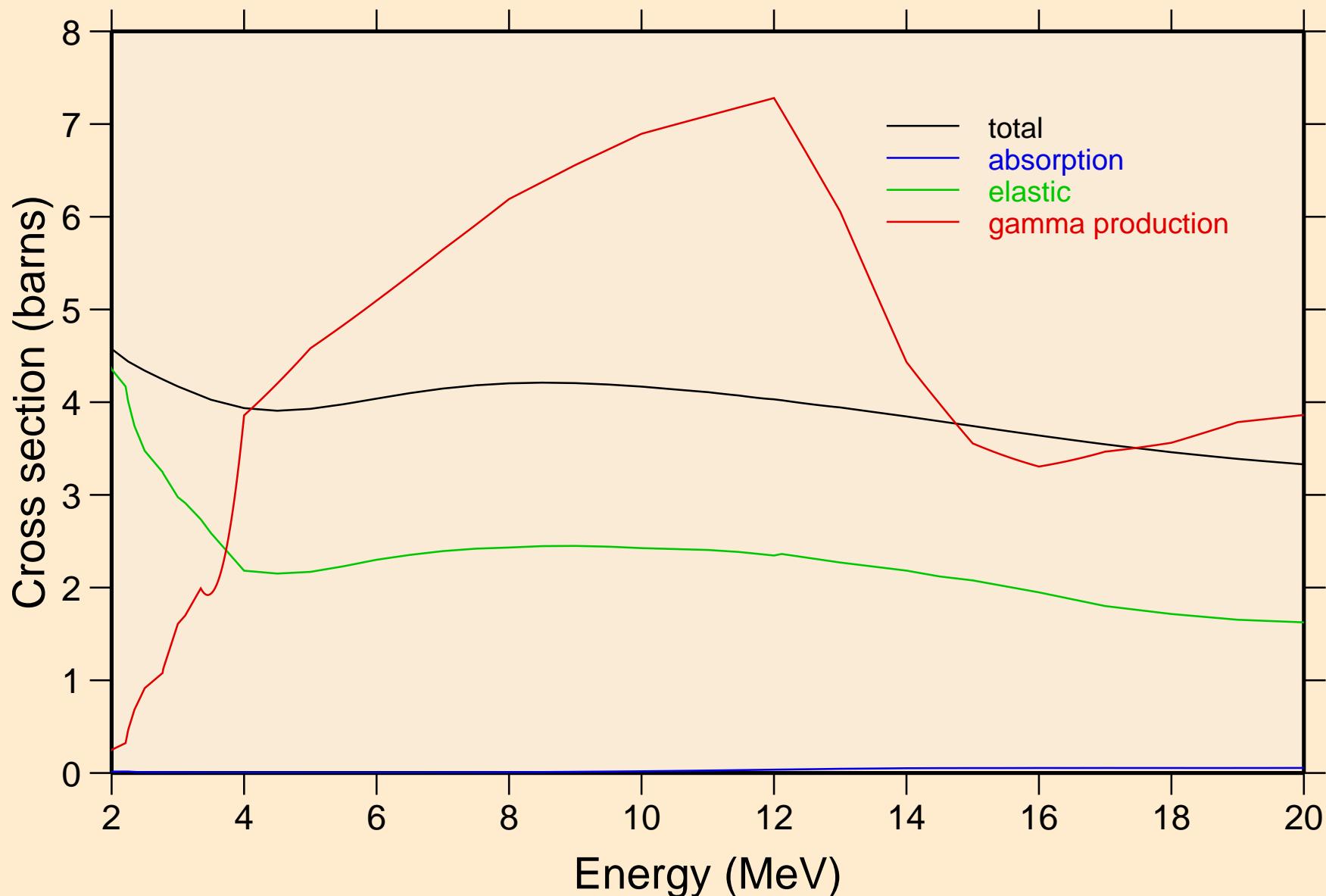


JENDL-4 ZR-90  
Non-threshold reactions

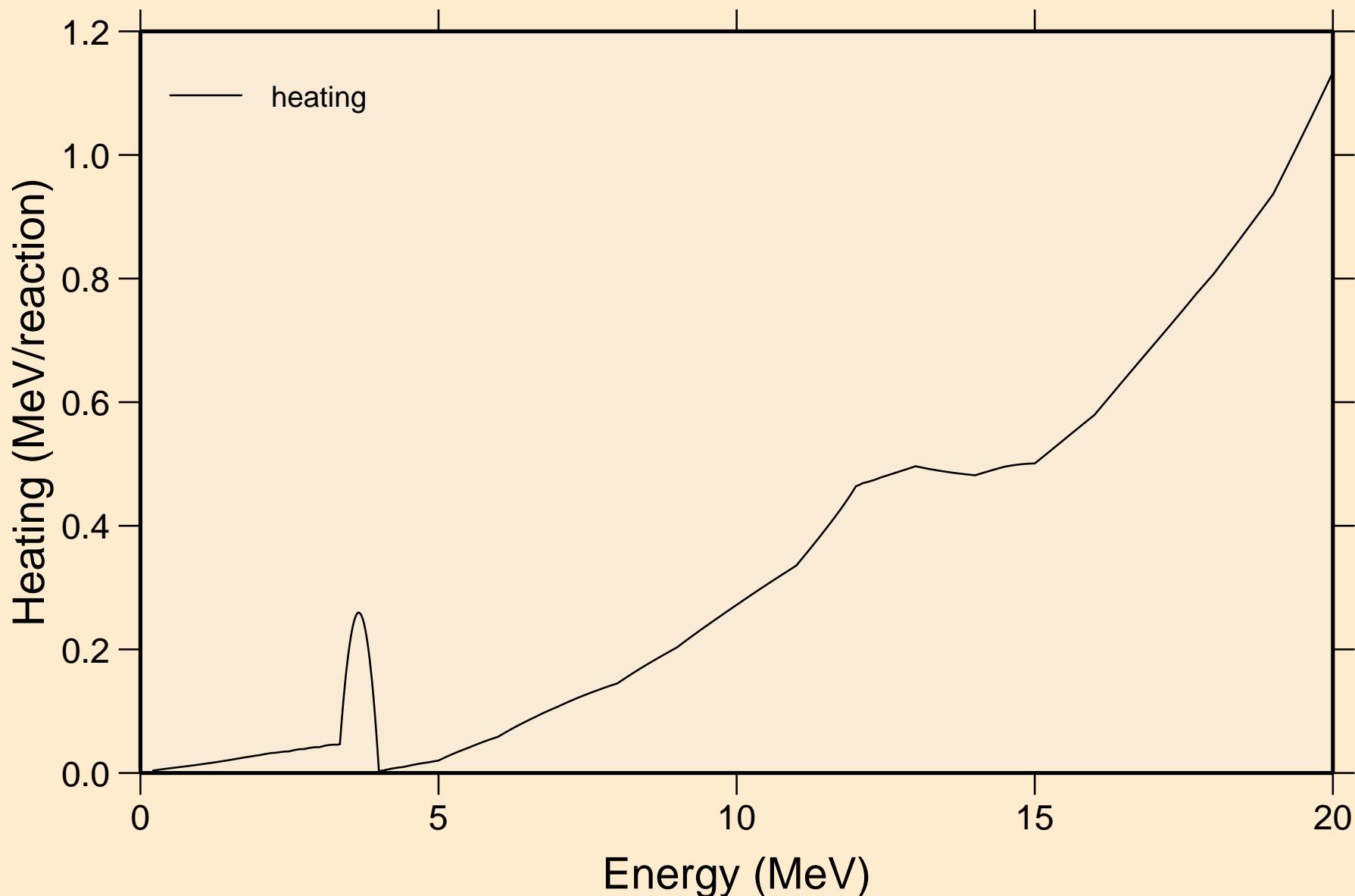


# JENDL-4 ZR-90

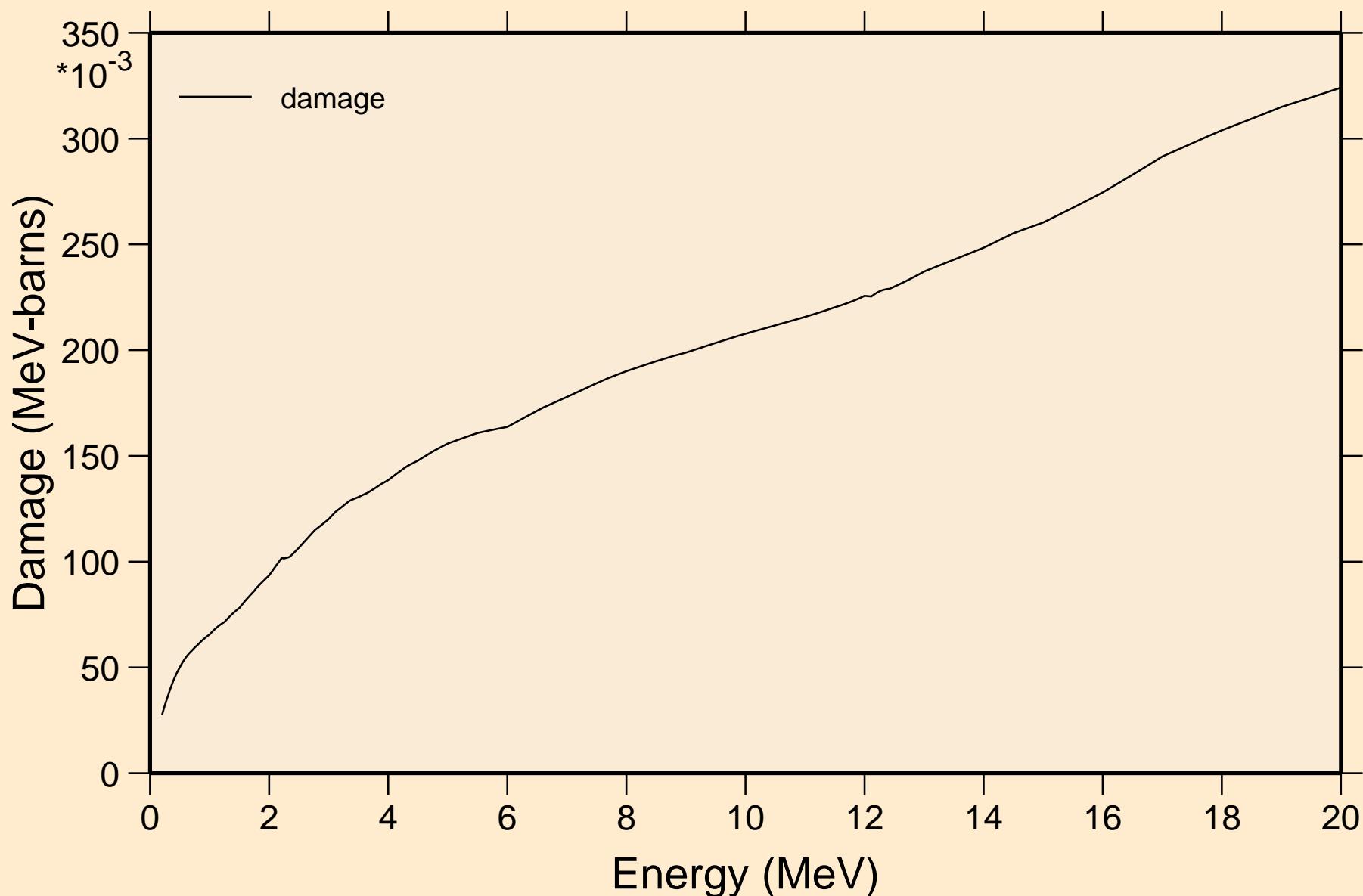
## Principal cross sections



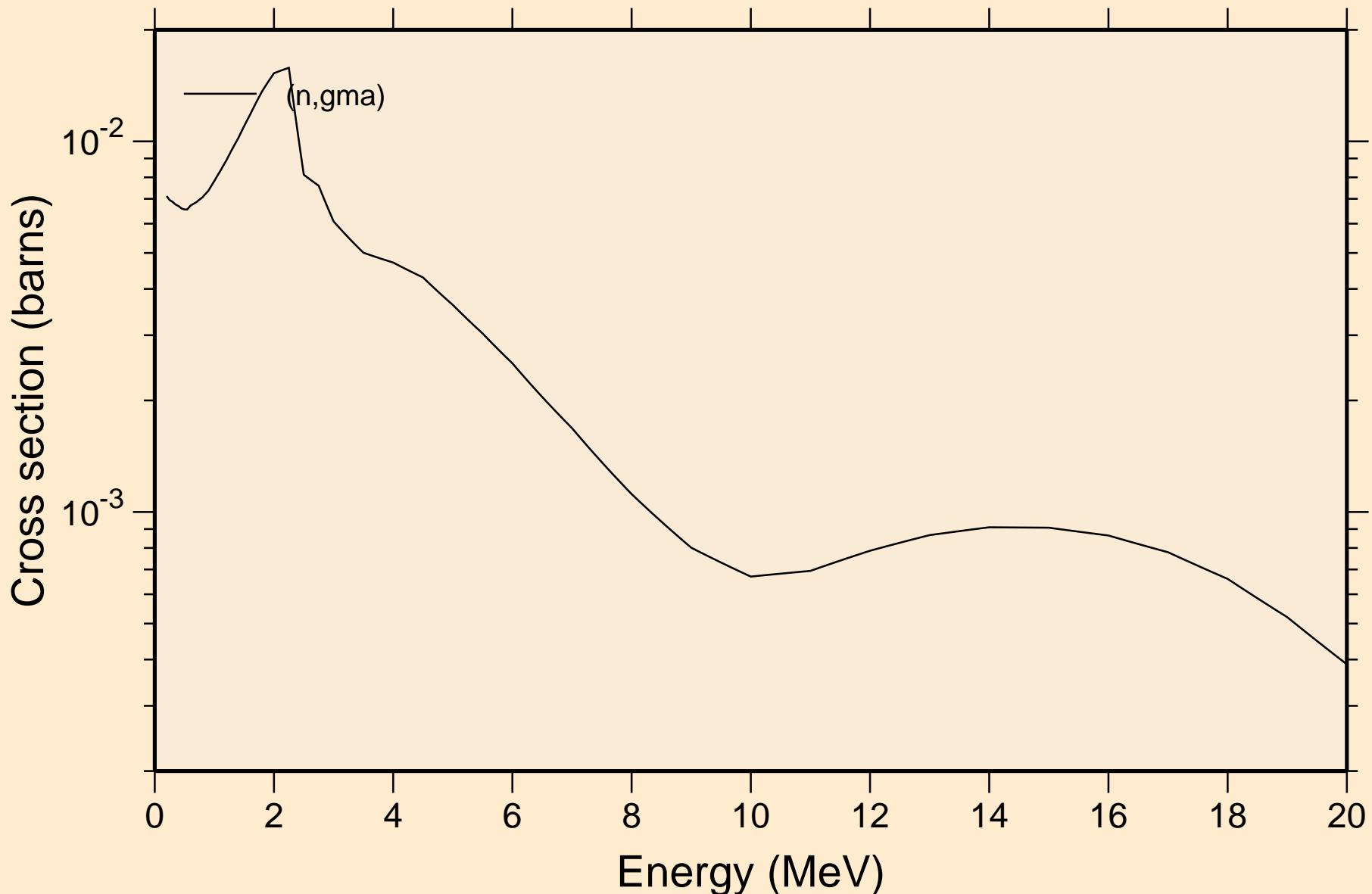
JENDL-4 ZR-90  
Heating



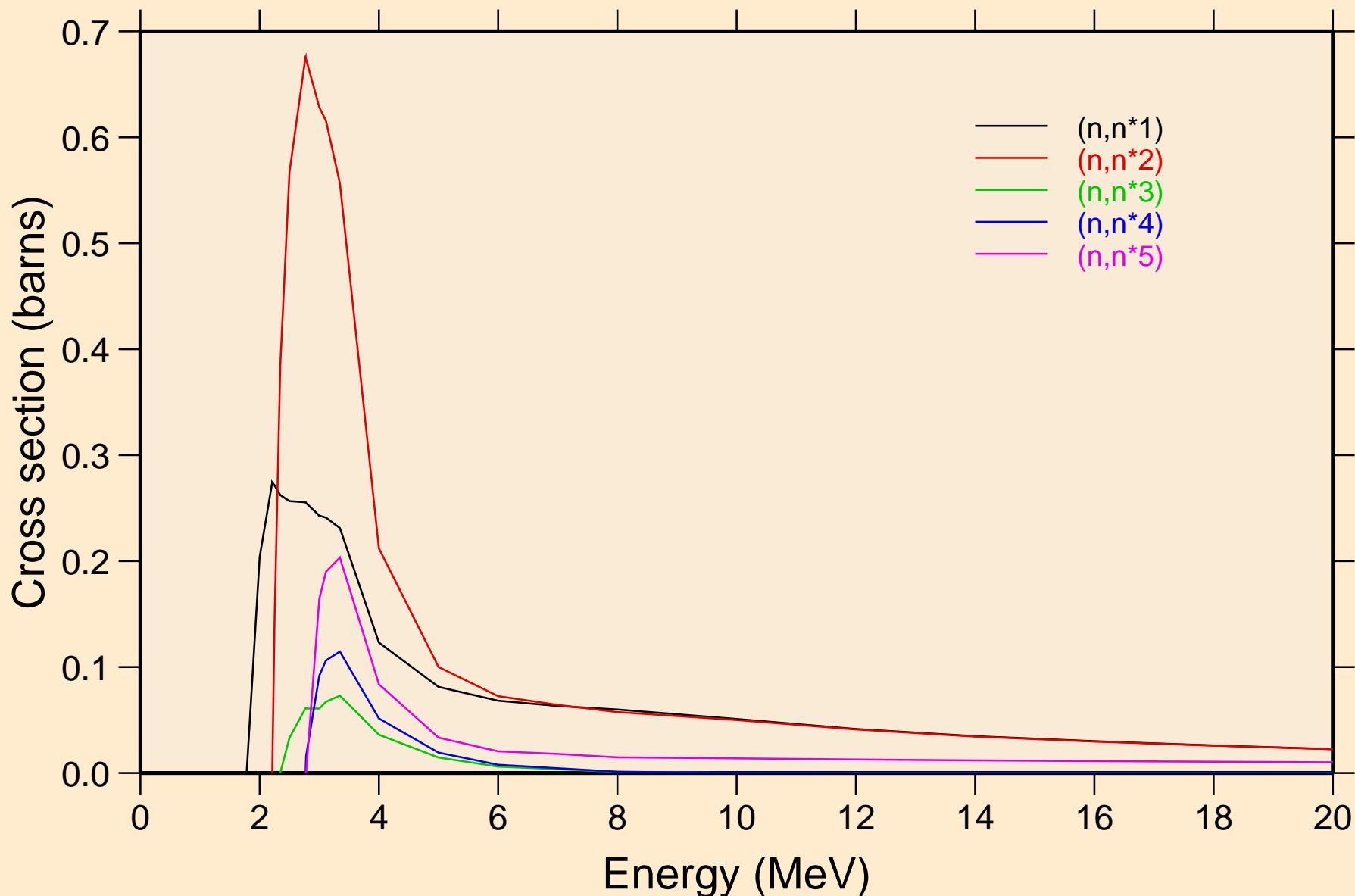
JENDL-4 ZR-90  
Damage



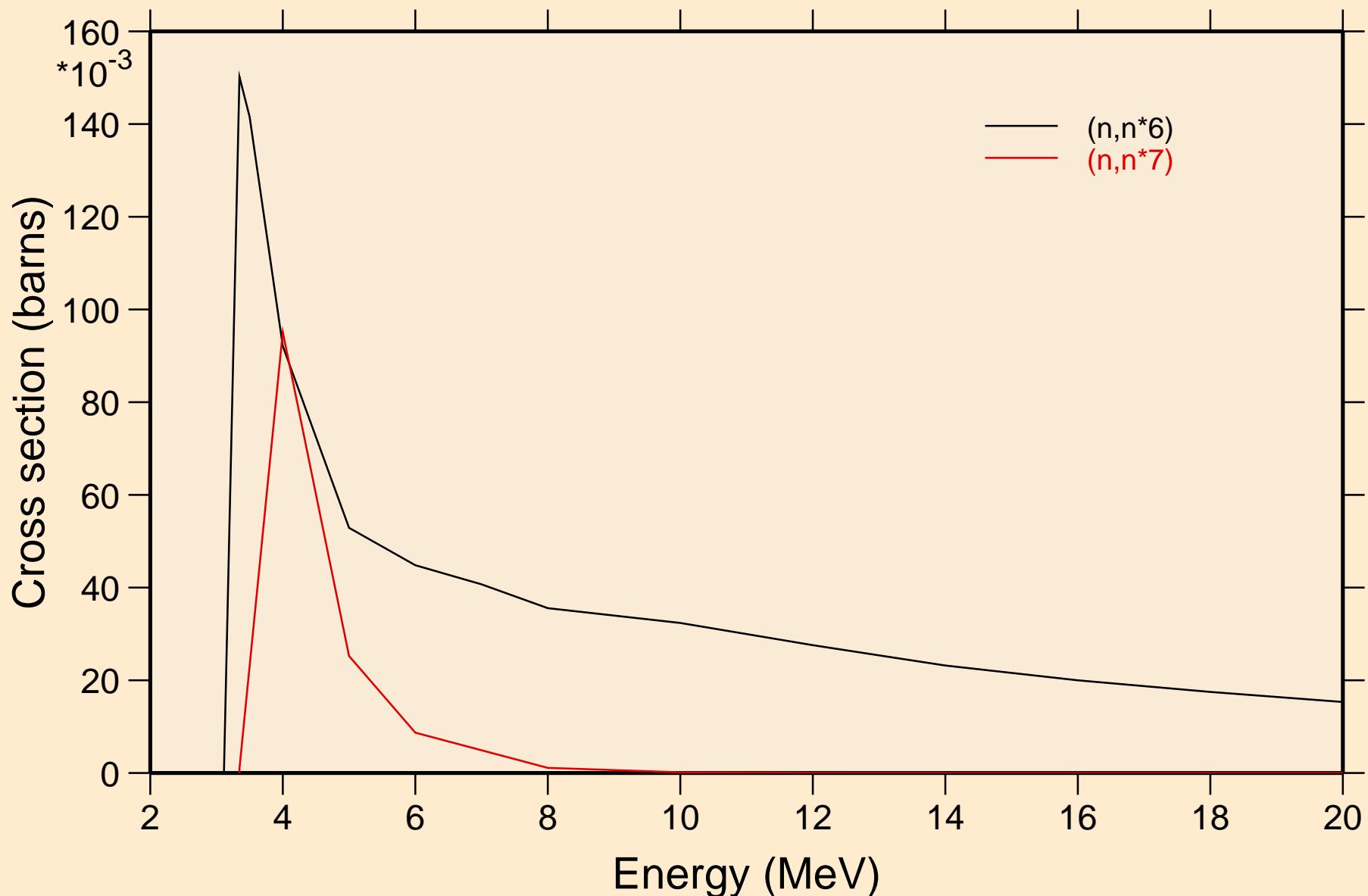
JENDL-4 ZR-90  
Non-threshold reactions



JENDL-4 ZR-90  
Inelastic levels

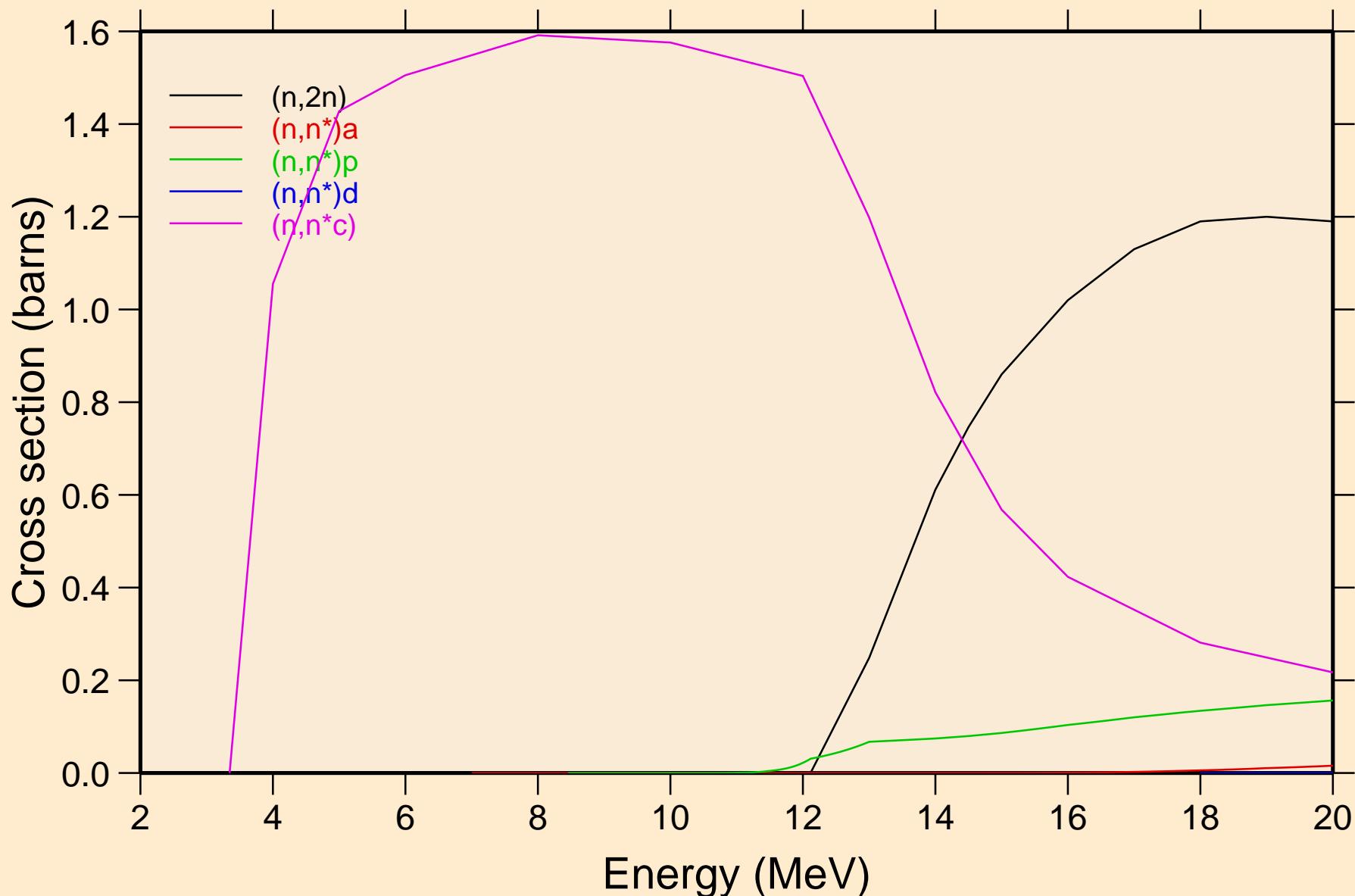


JENDL-4 ZR-90  
Inelastic levels



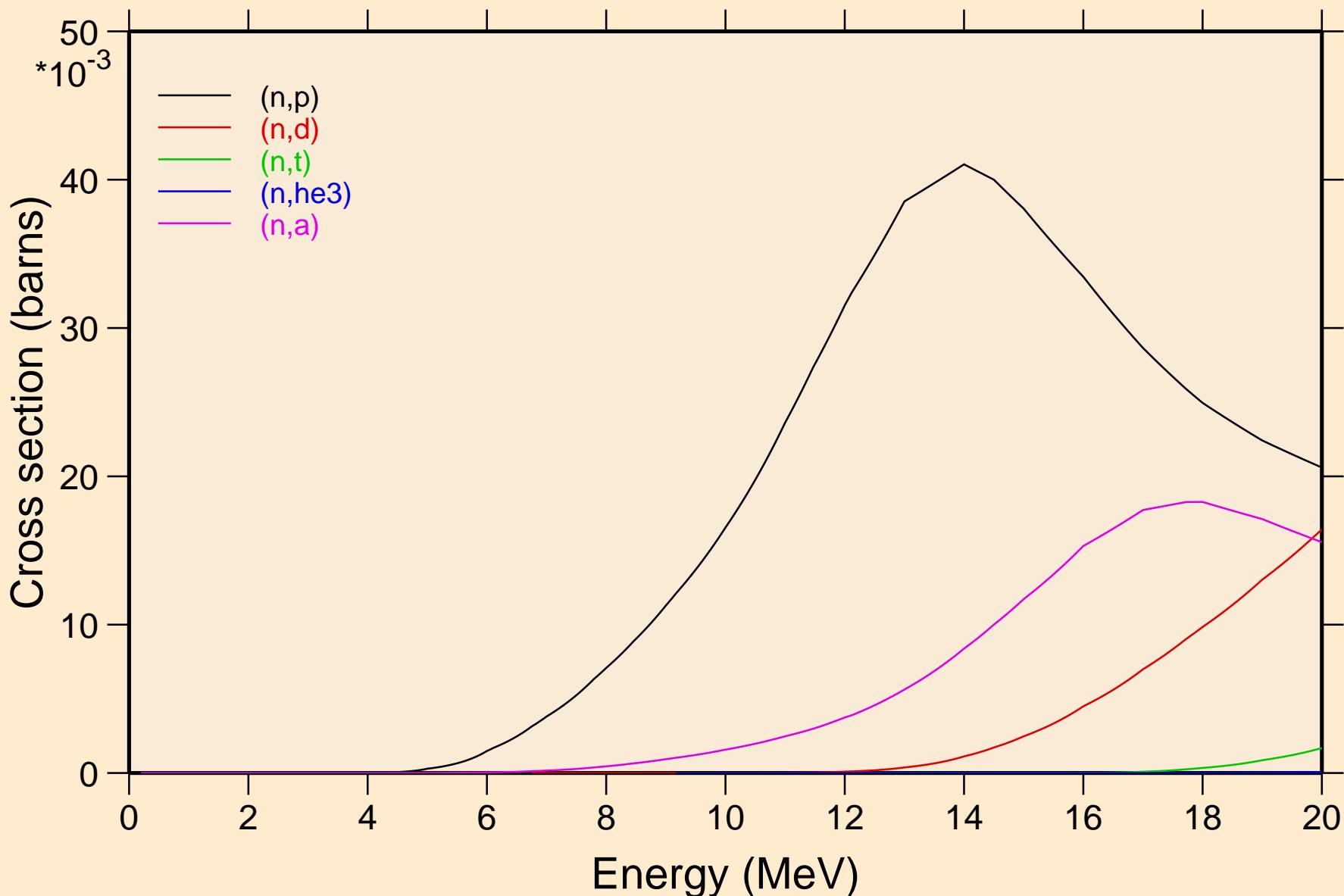
# JENDL-4 ZR-90

## Threshold reactions

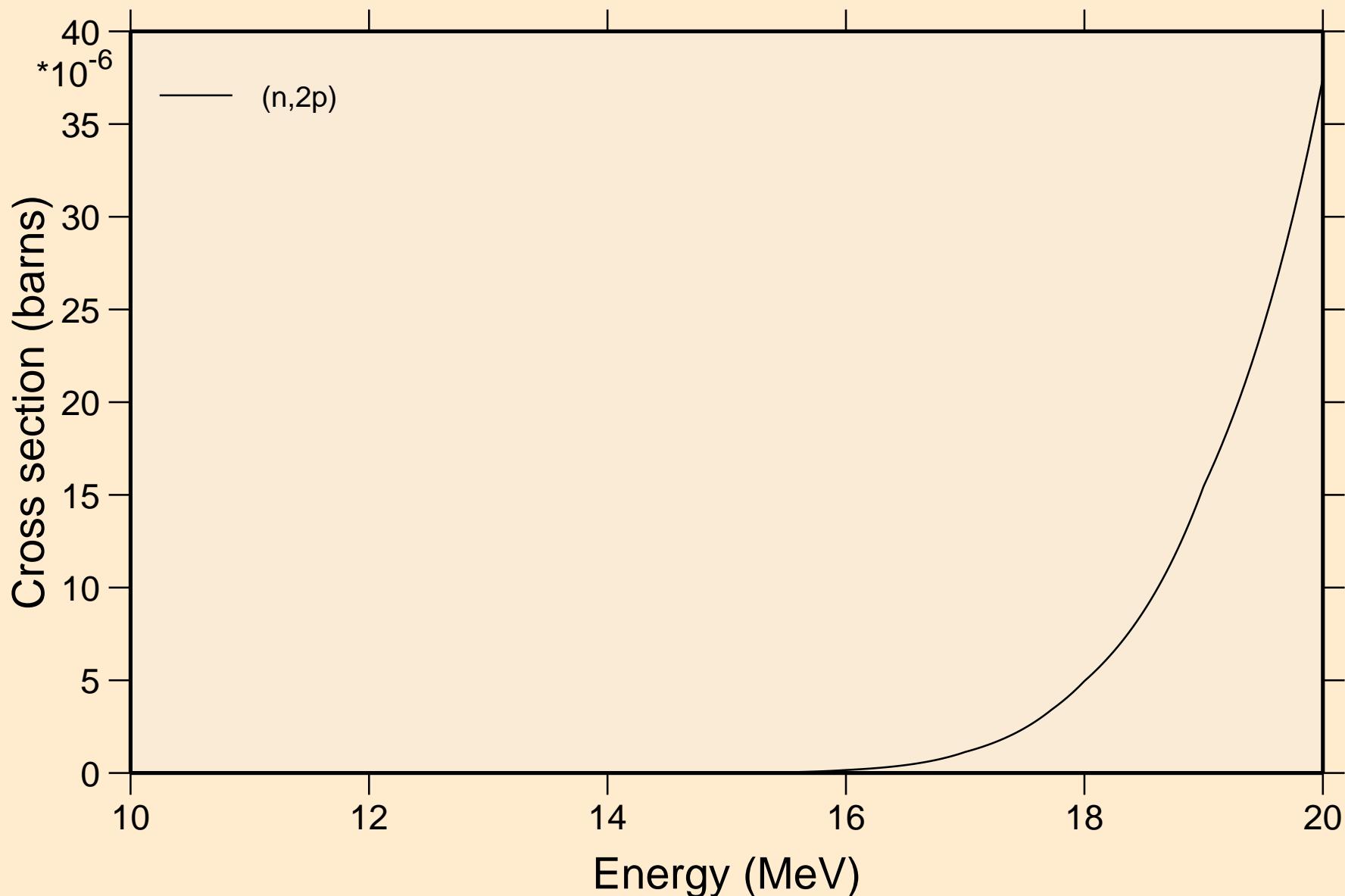


# JENDL-4 ZR-90

## Threshold reactions

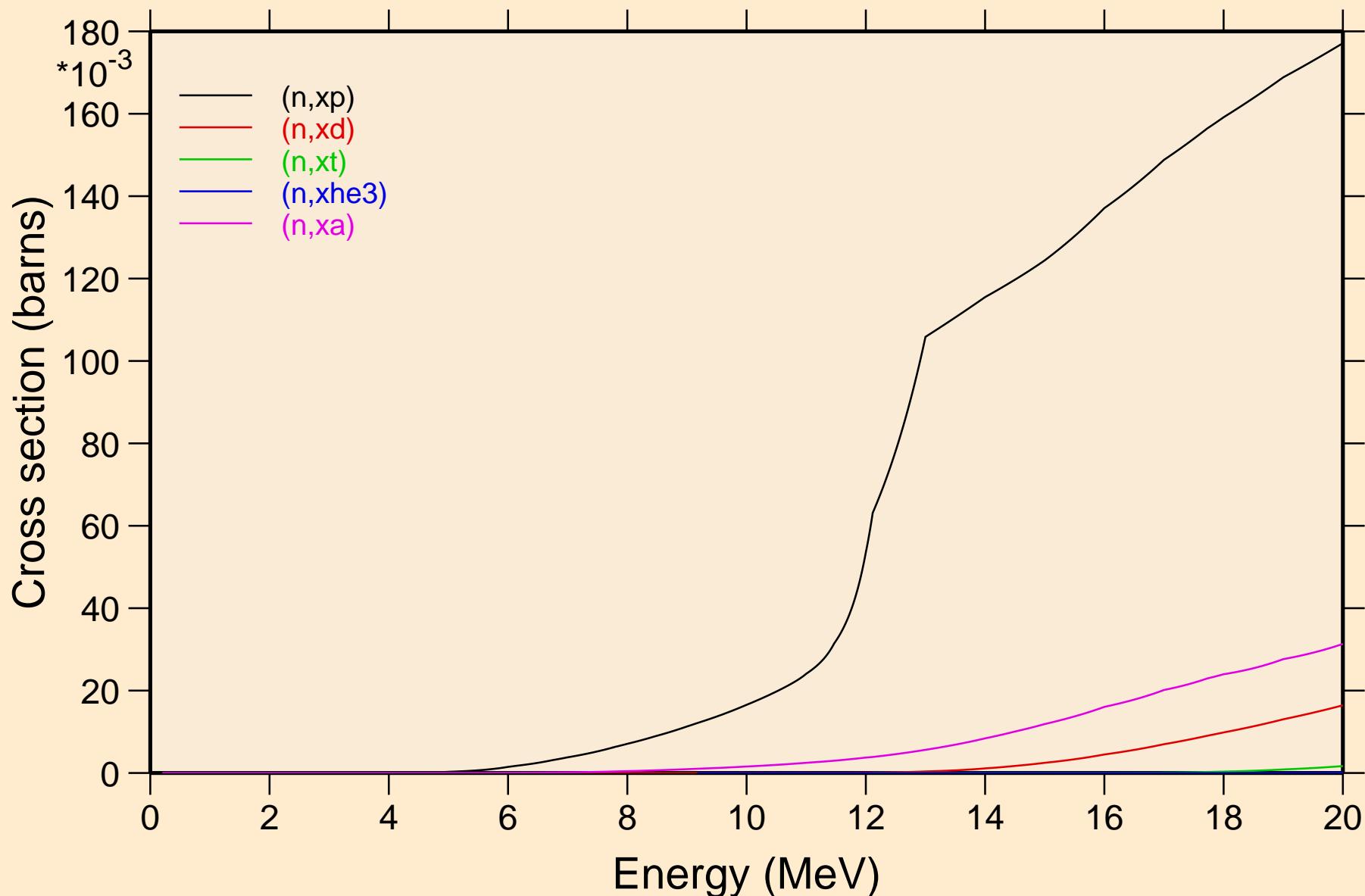


JENDL-4 ZR-90  
Threshold reactions

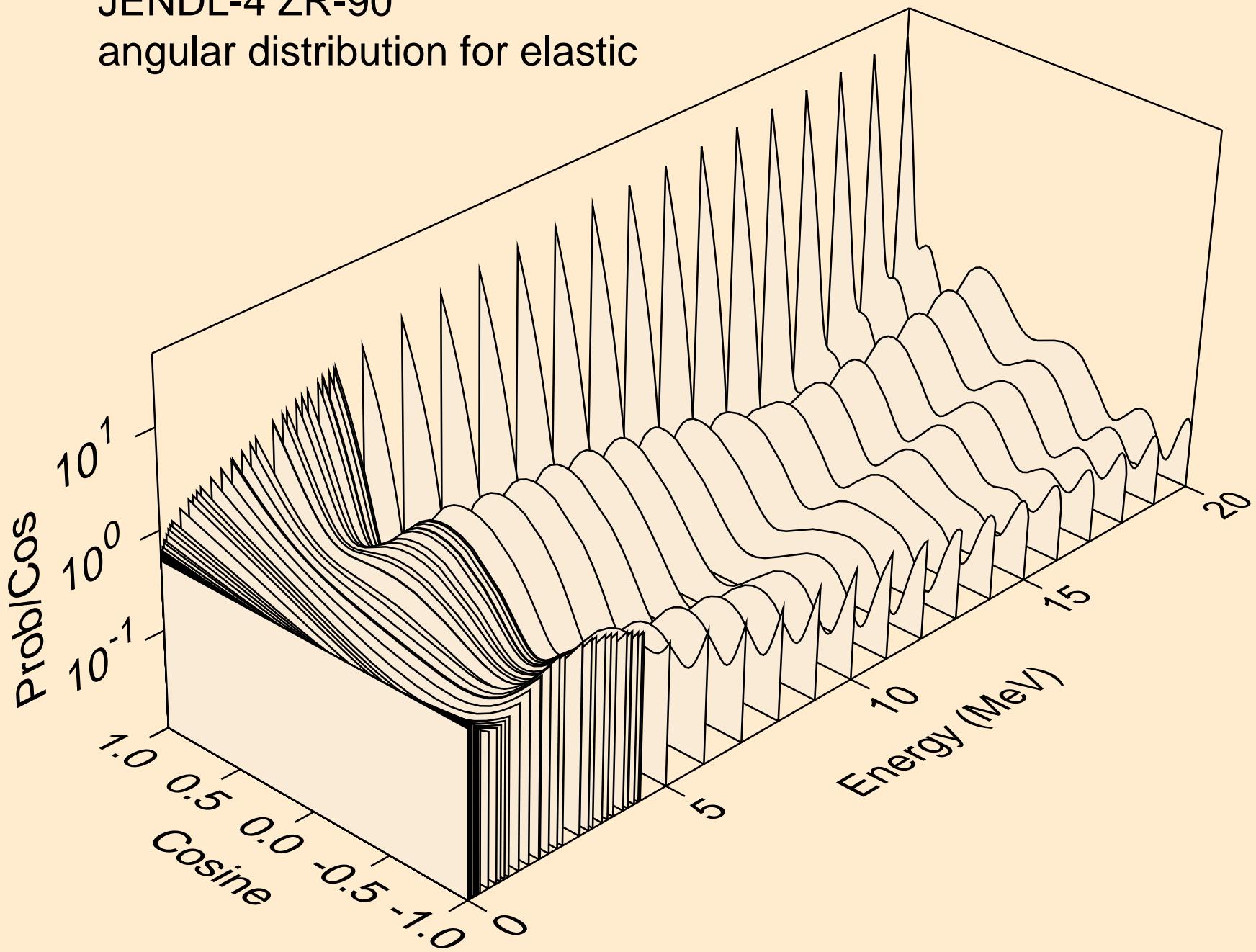


# JENDL-4 ZR-90

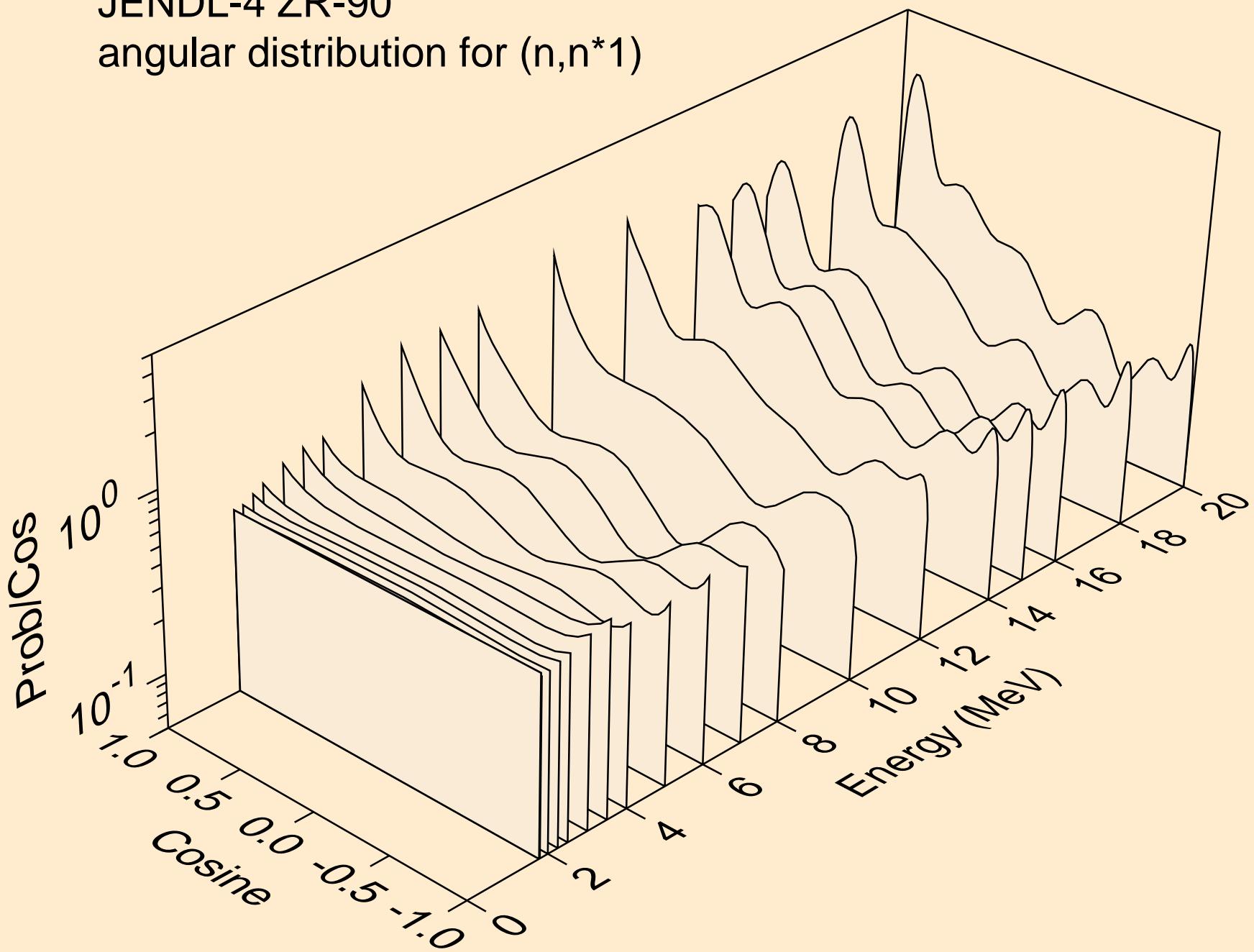
## Threshold reactions



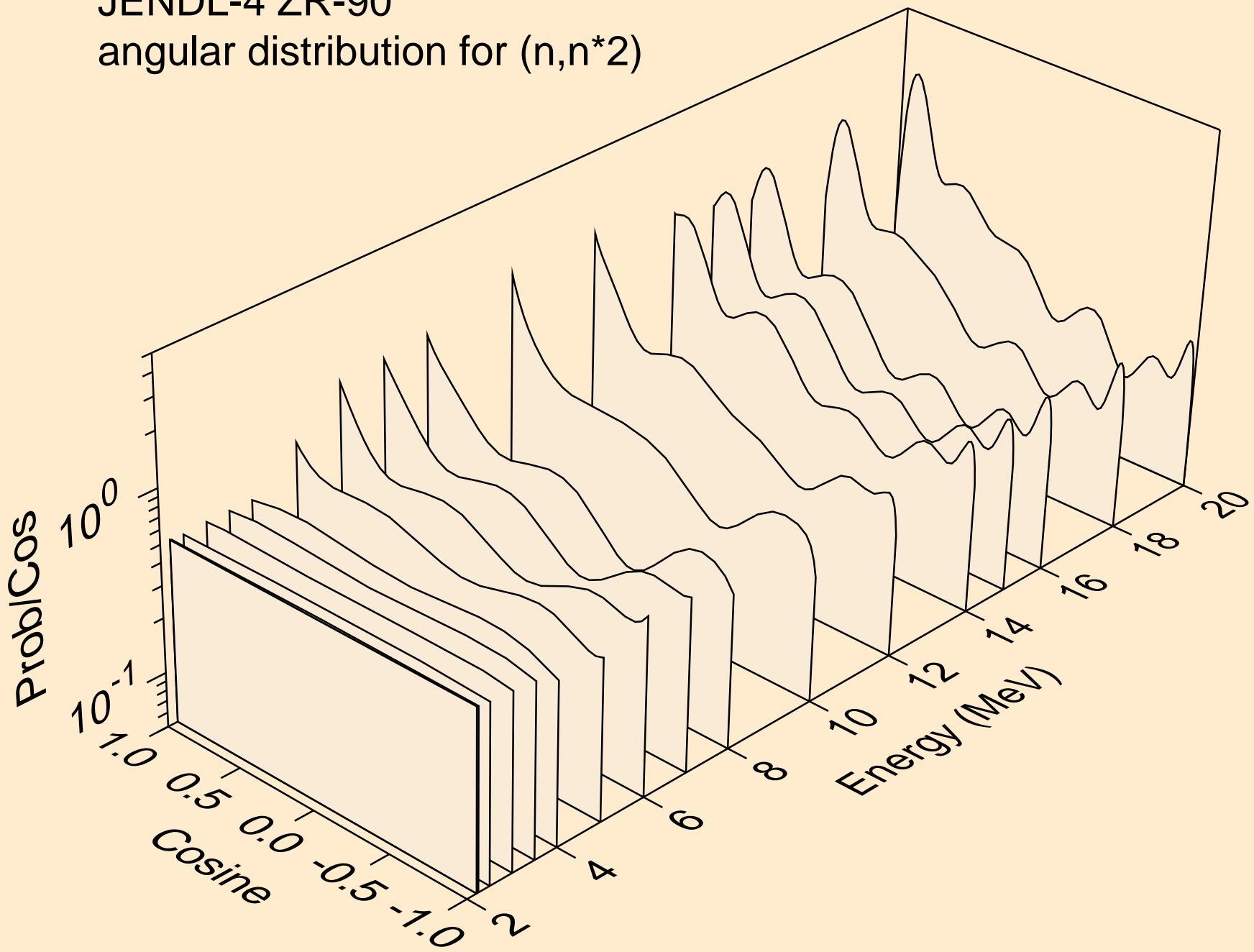
JENDL-4 ZR-90  
angular distribution for elastic



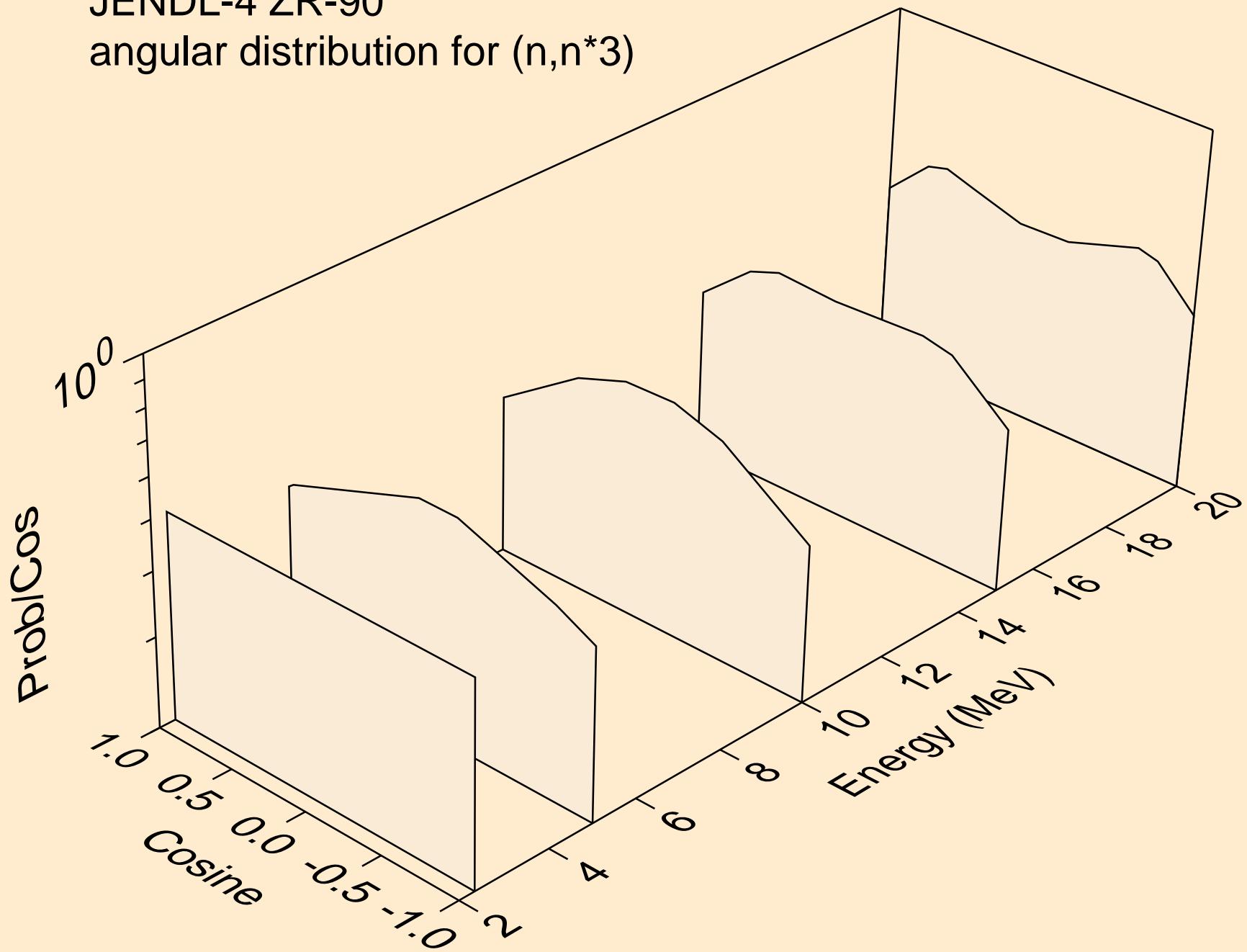
JENDL-4 ZR-90  
angular distribution for  $(n,n^*)$



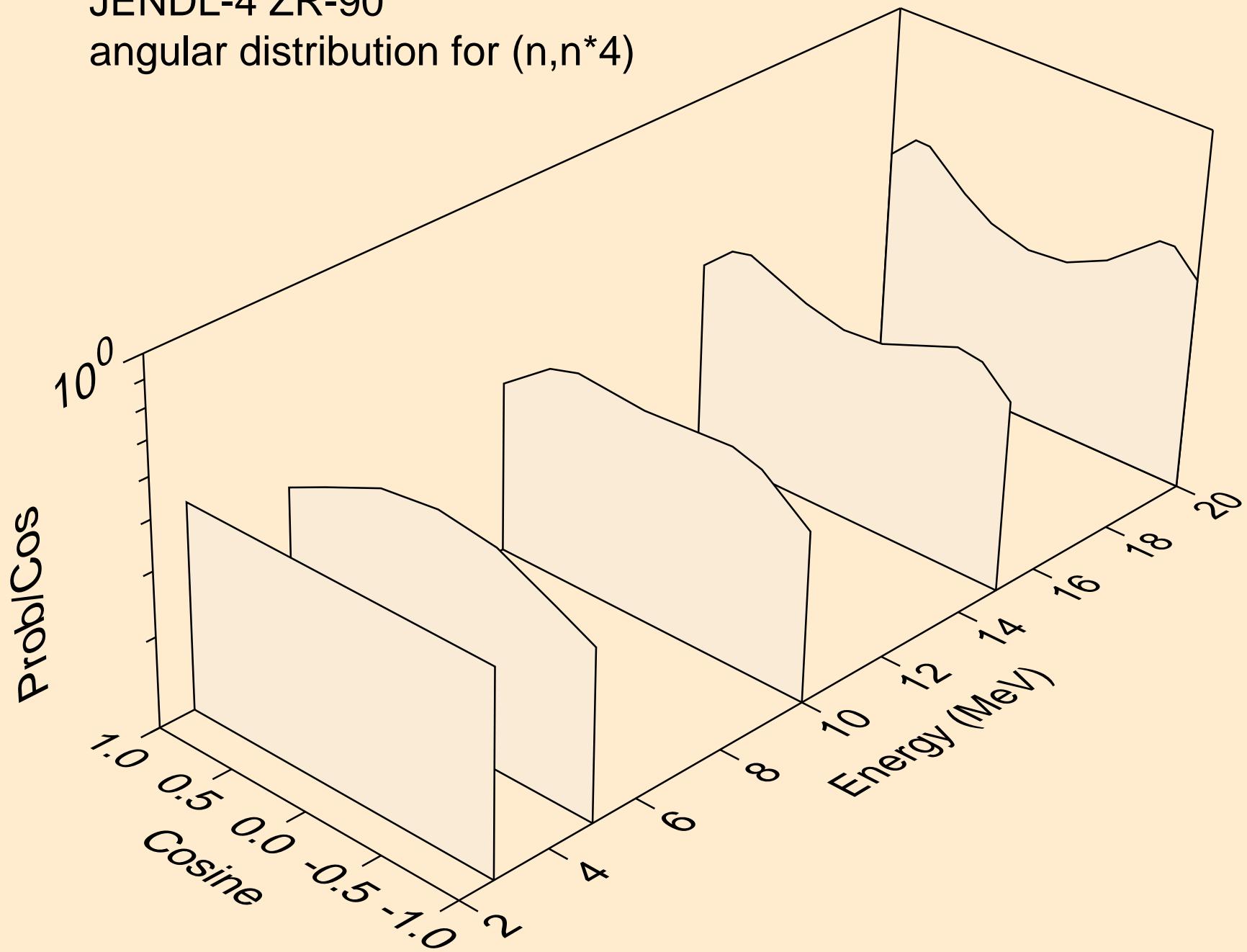
JENDL-4 ZR-90  
angular distribution for  $(n,n^*)^2$



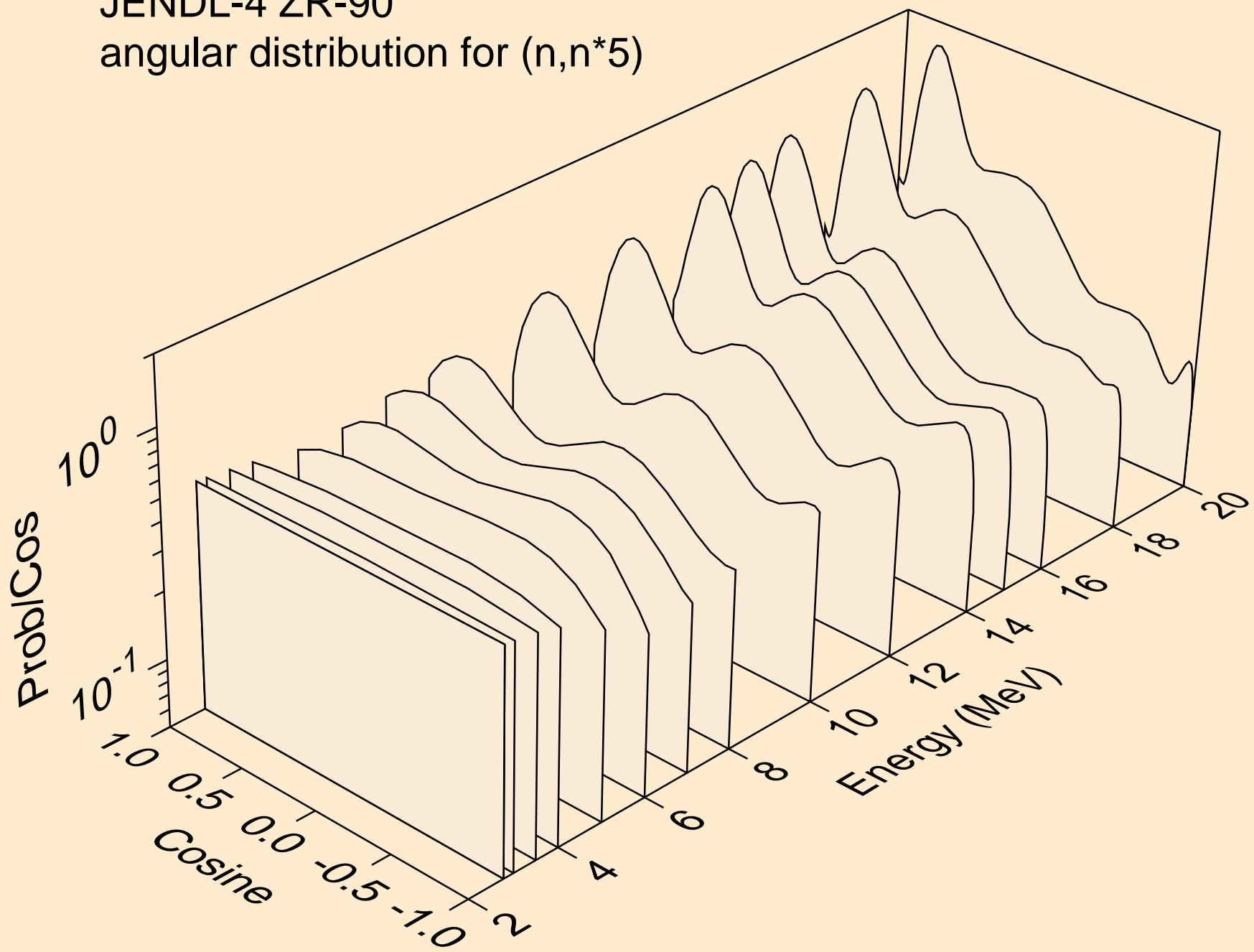
JENDL-4 ZR-90  
angular distribution for  $(n,n^*3)$



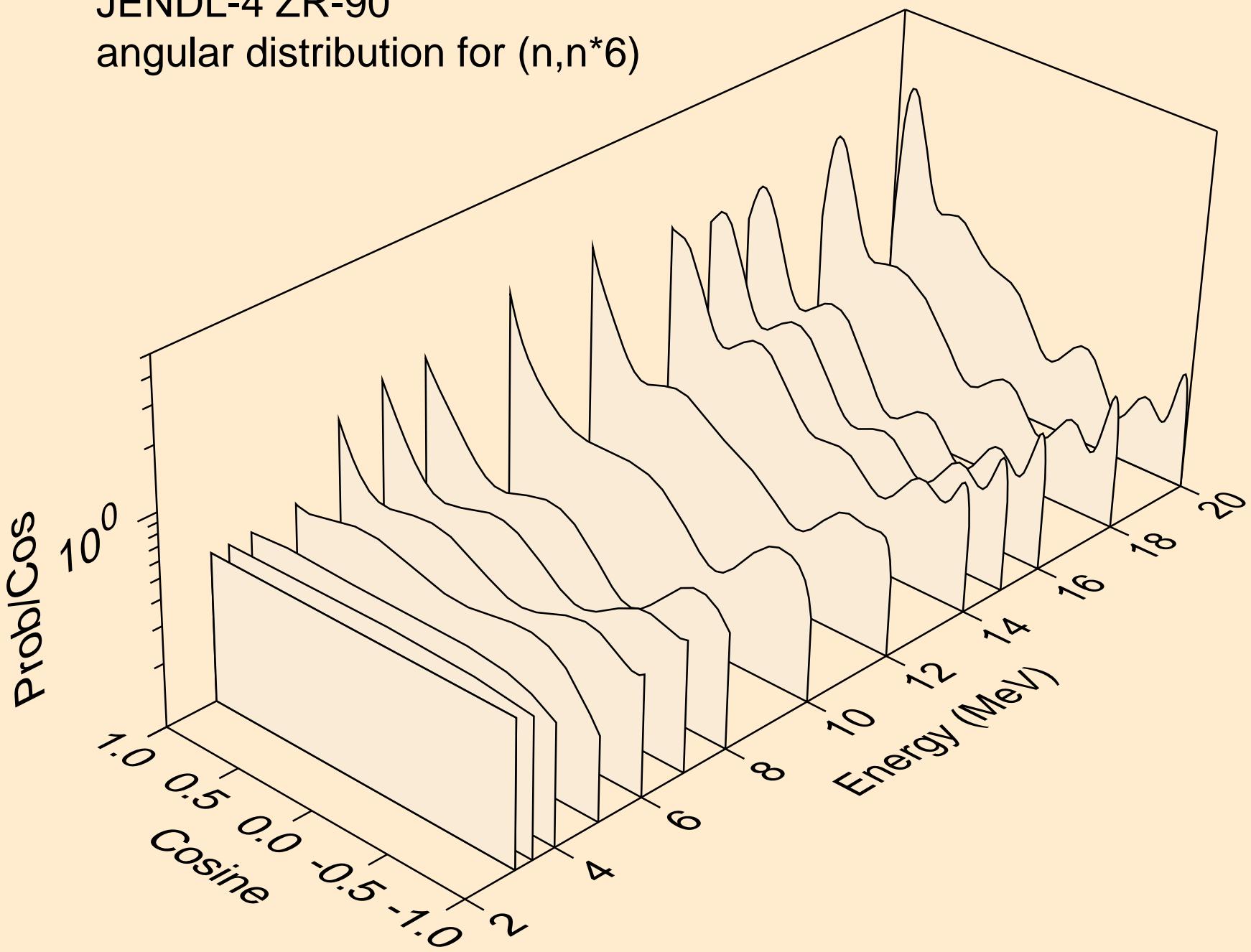
JENDL-4 ZR-90  
angular distribution for  $(n,n^*4)$



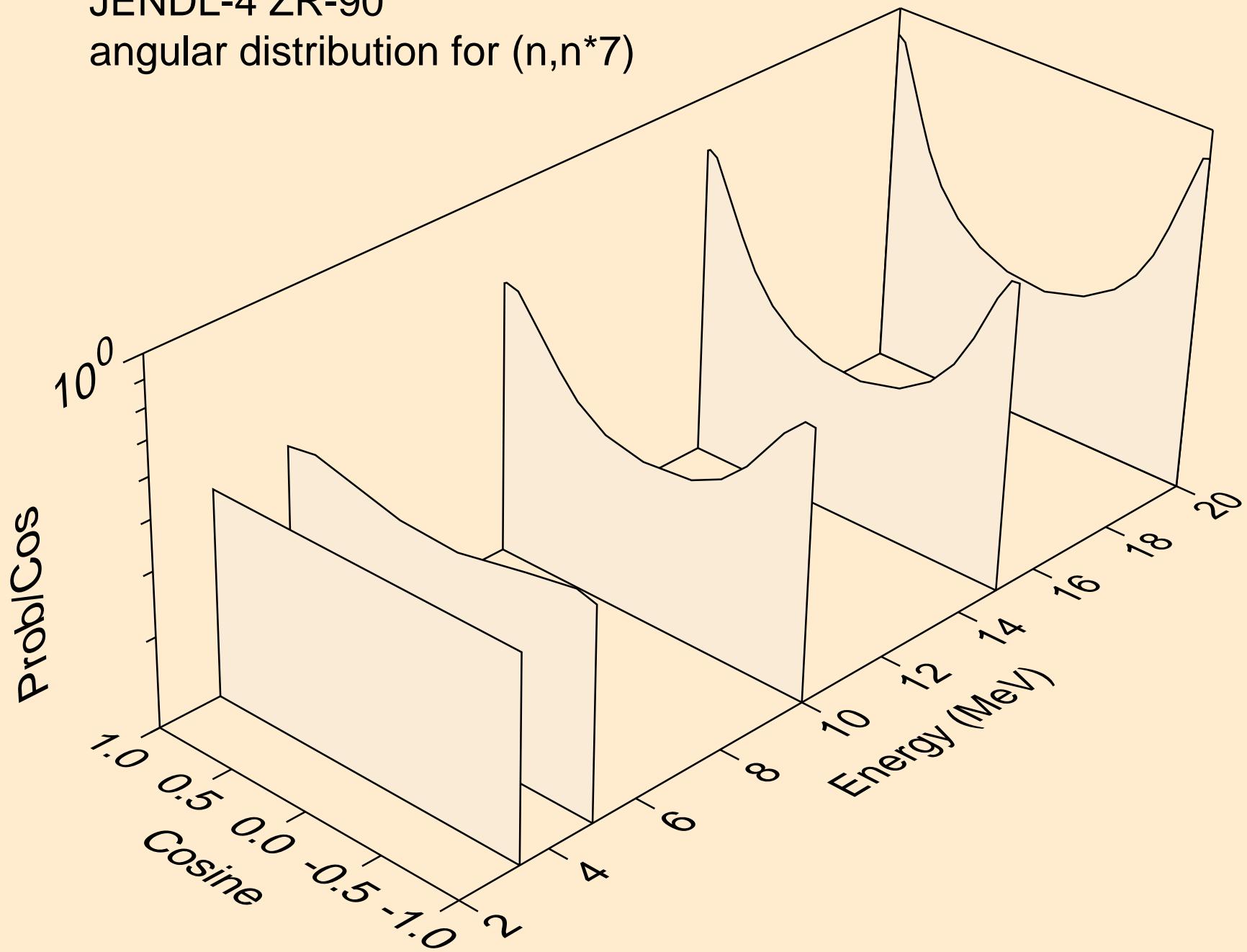
JENDL-4 ZR-90  
angular distribution for  $(n,n^*5)$



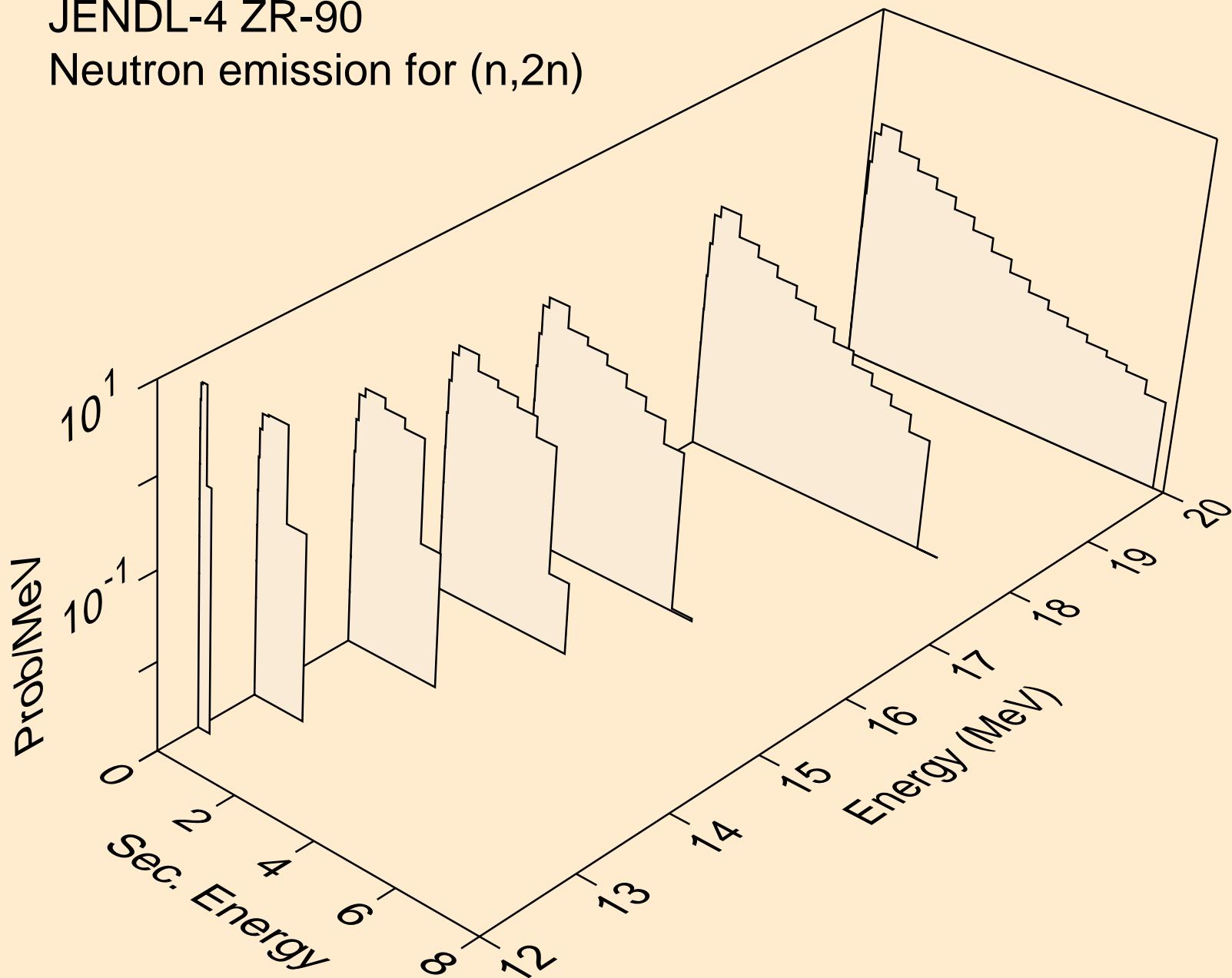
JENDL-4 ZR-90  
angular distribution for  $(n,n^*6)$



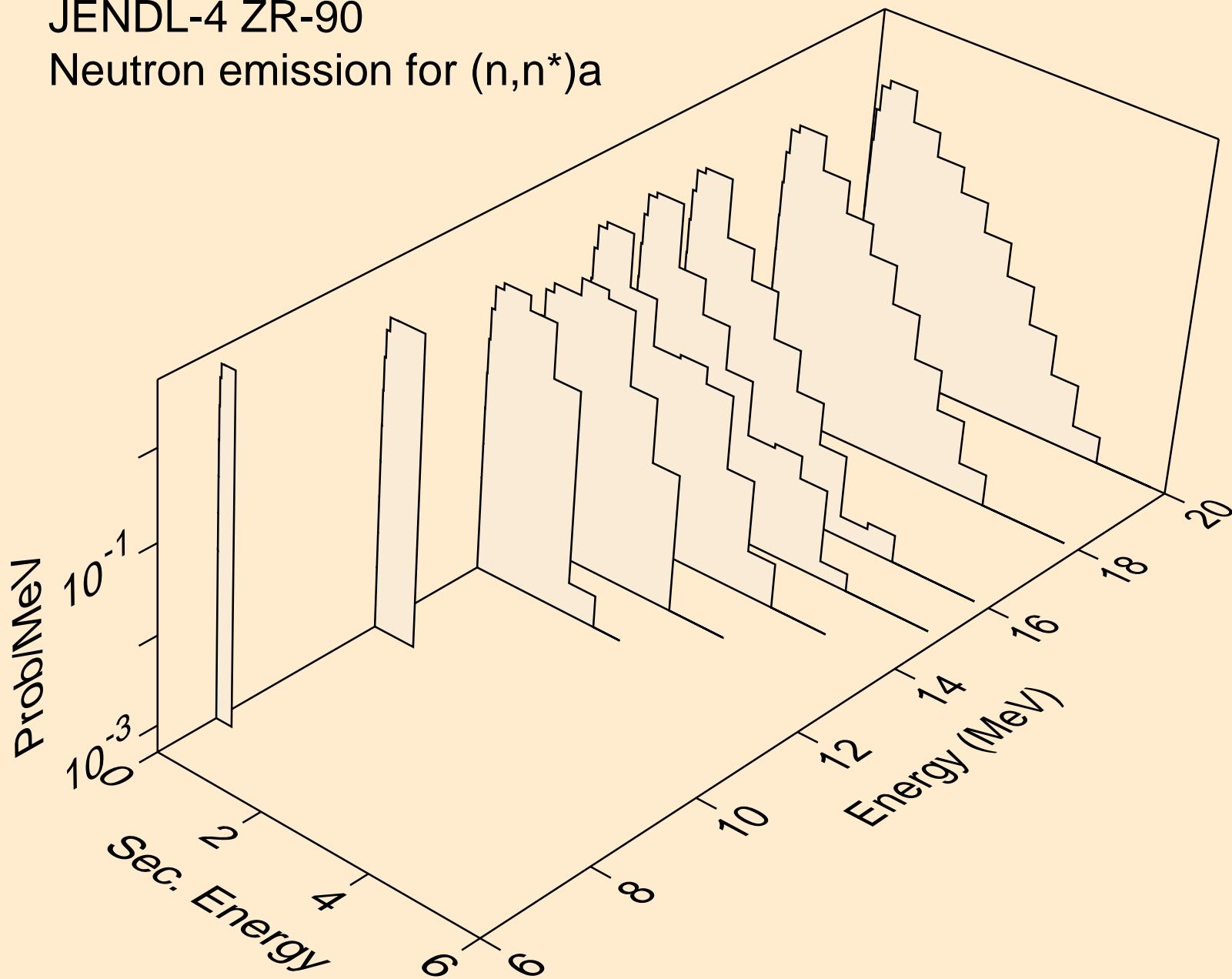
JENDL-4 ZR-90  
angular distribution for  $(n,n^*7)$



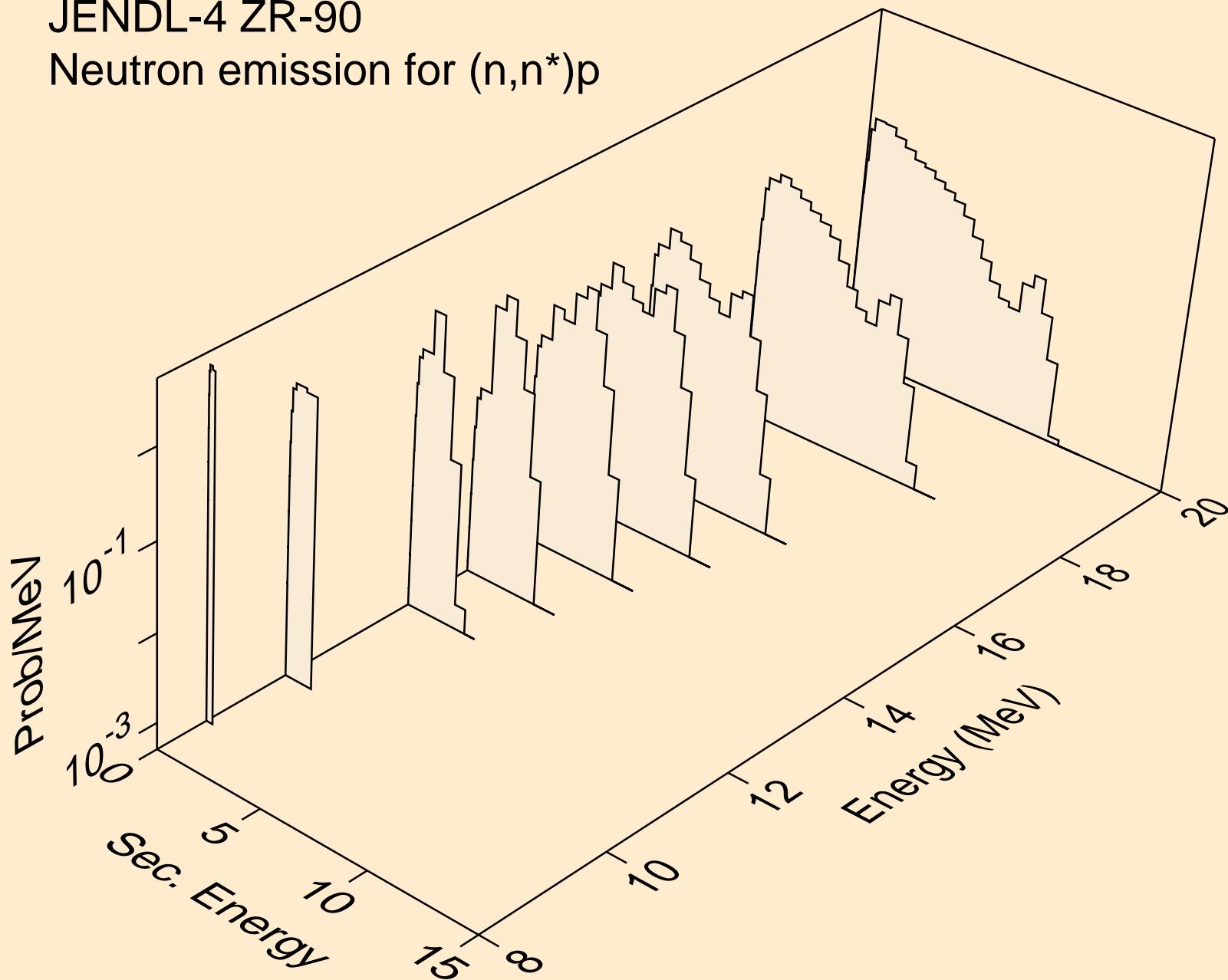
JENDL-4 ZR-90  
Neutron emission for  $(n,2n)$



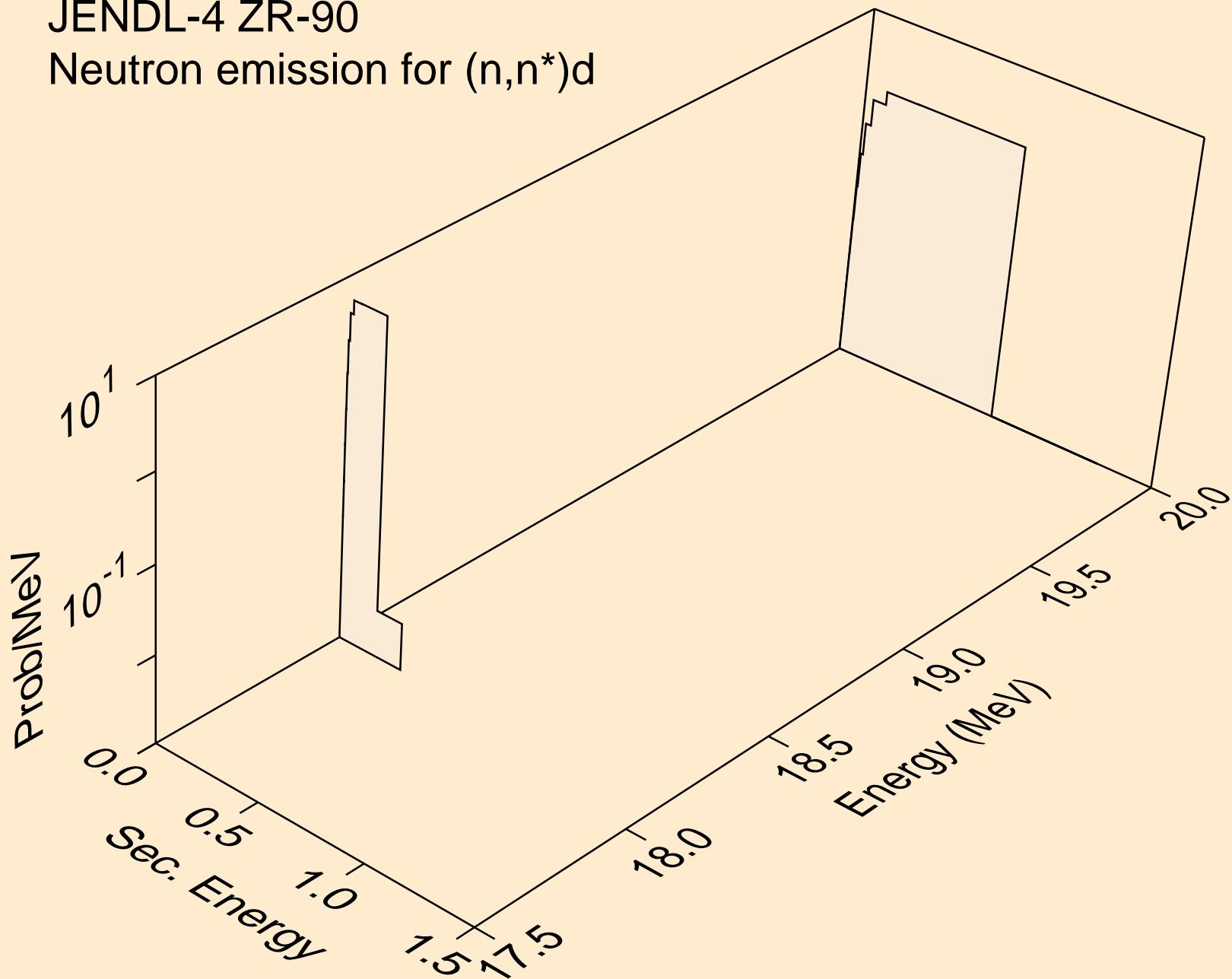
JENDL-4 ZR-90  
Neutron emission for  $(n,n^*)a$



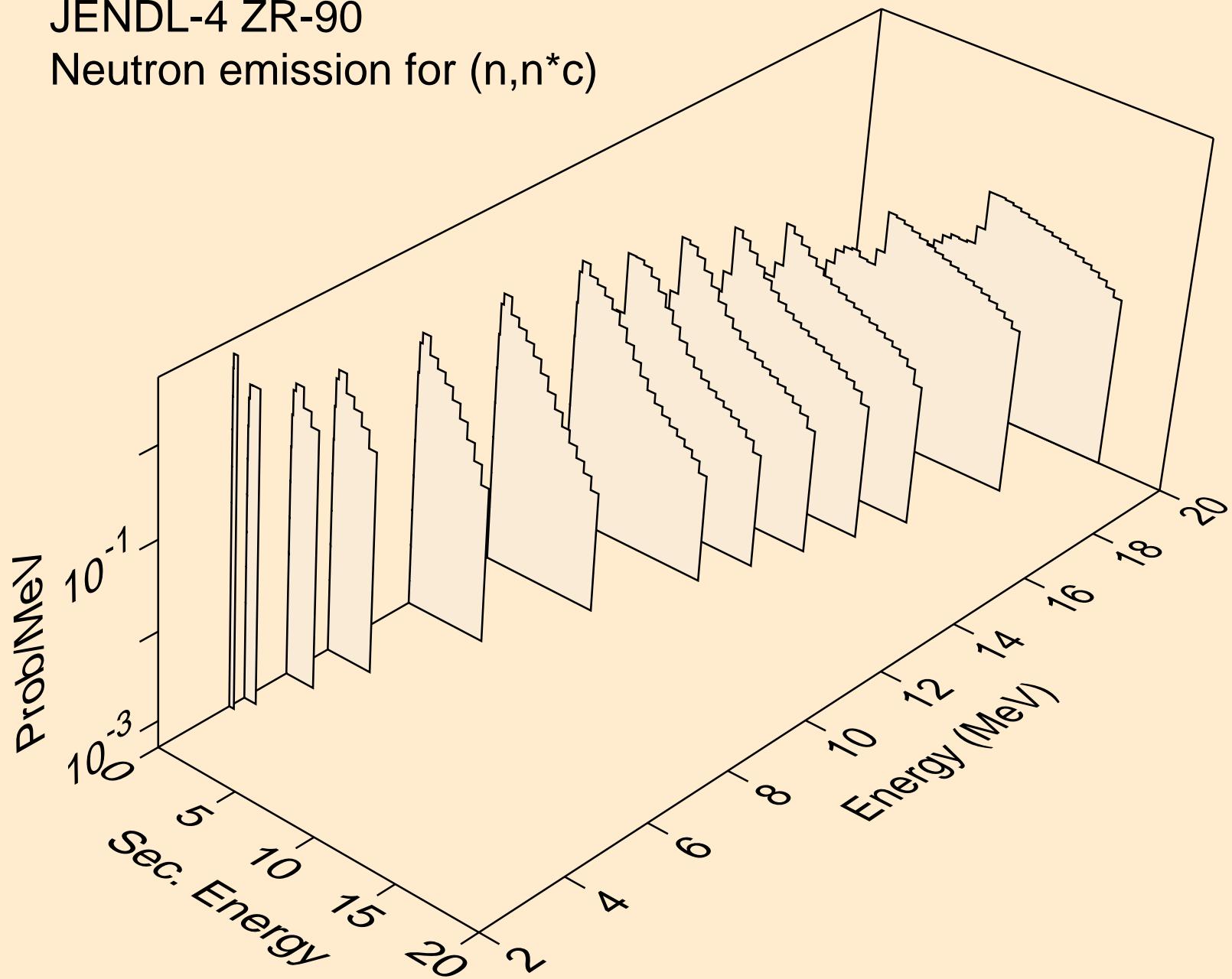
JENDL-4 ZR-90  
Neutron emission for  $(n,n^*)p$



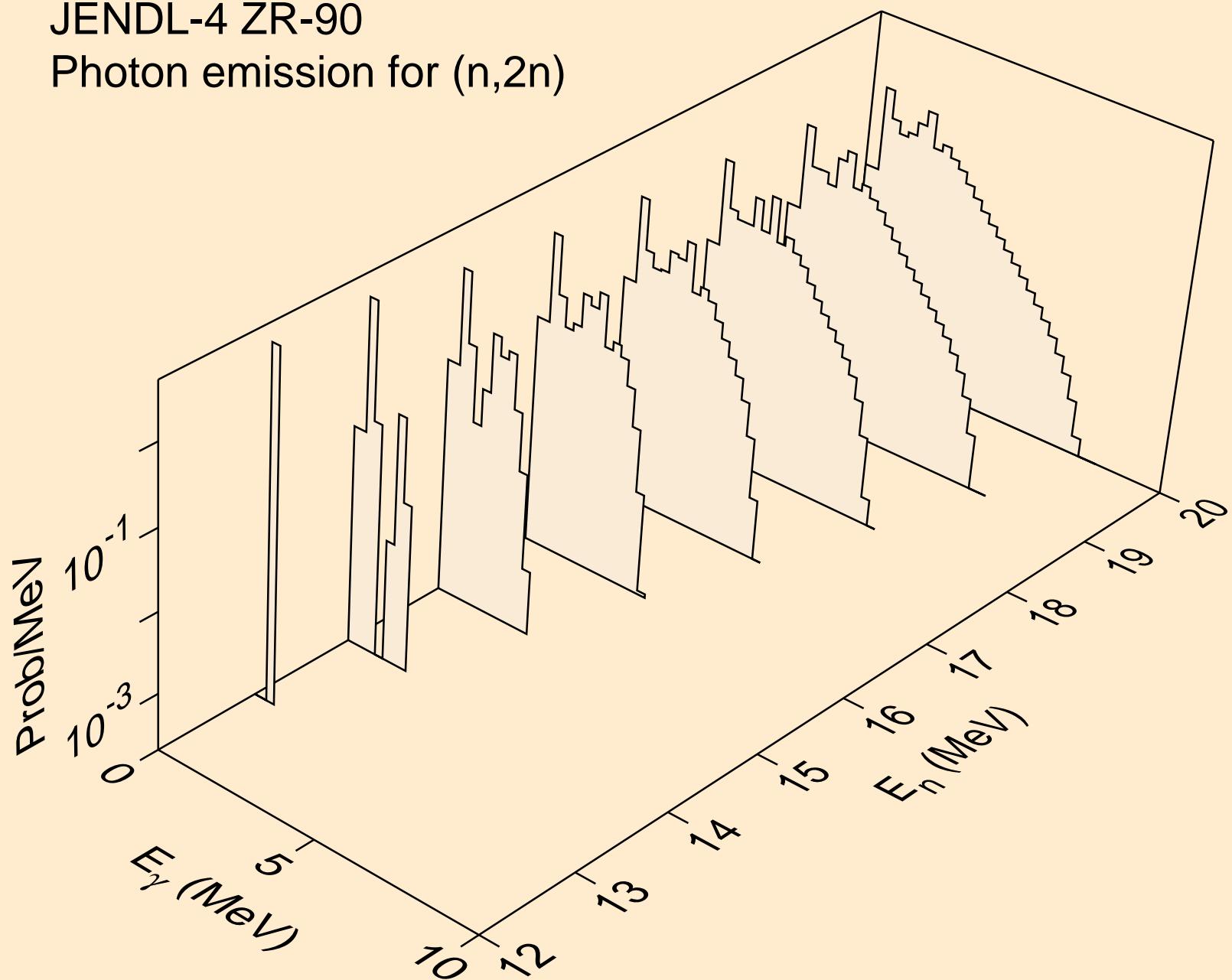
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Neutron emission for  $(n,n^*)d$



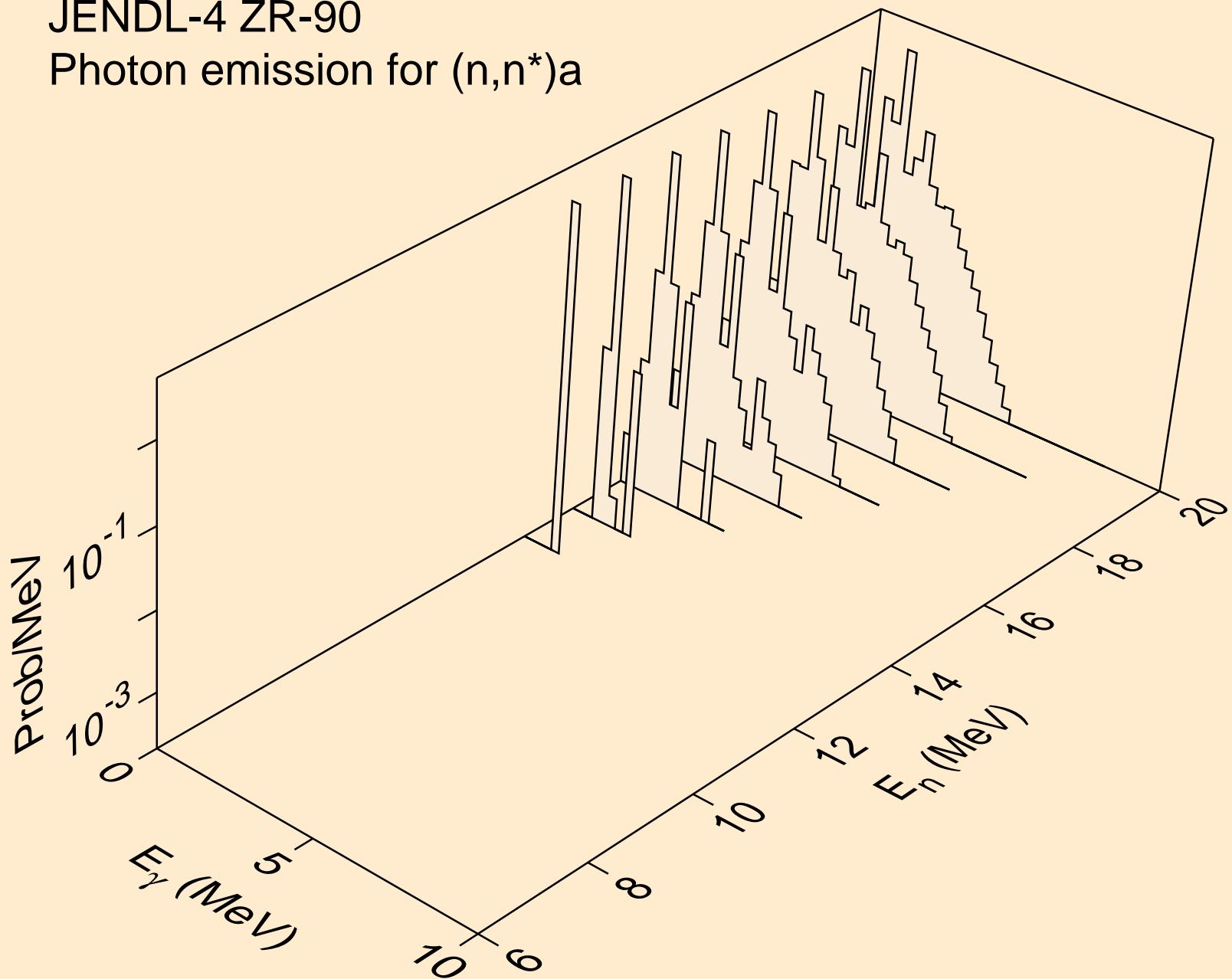
JENDL-4 ZR-90  
Neutron emission for  $(n,n^*c)$



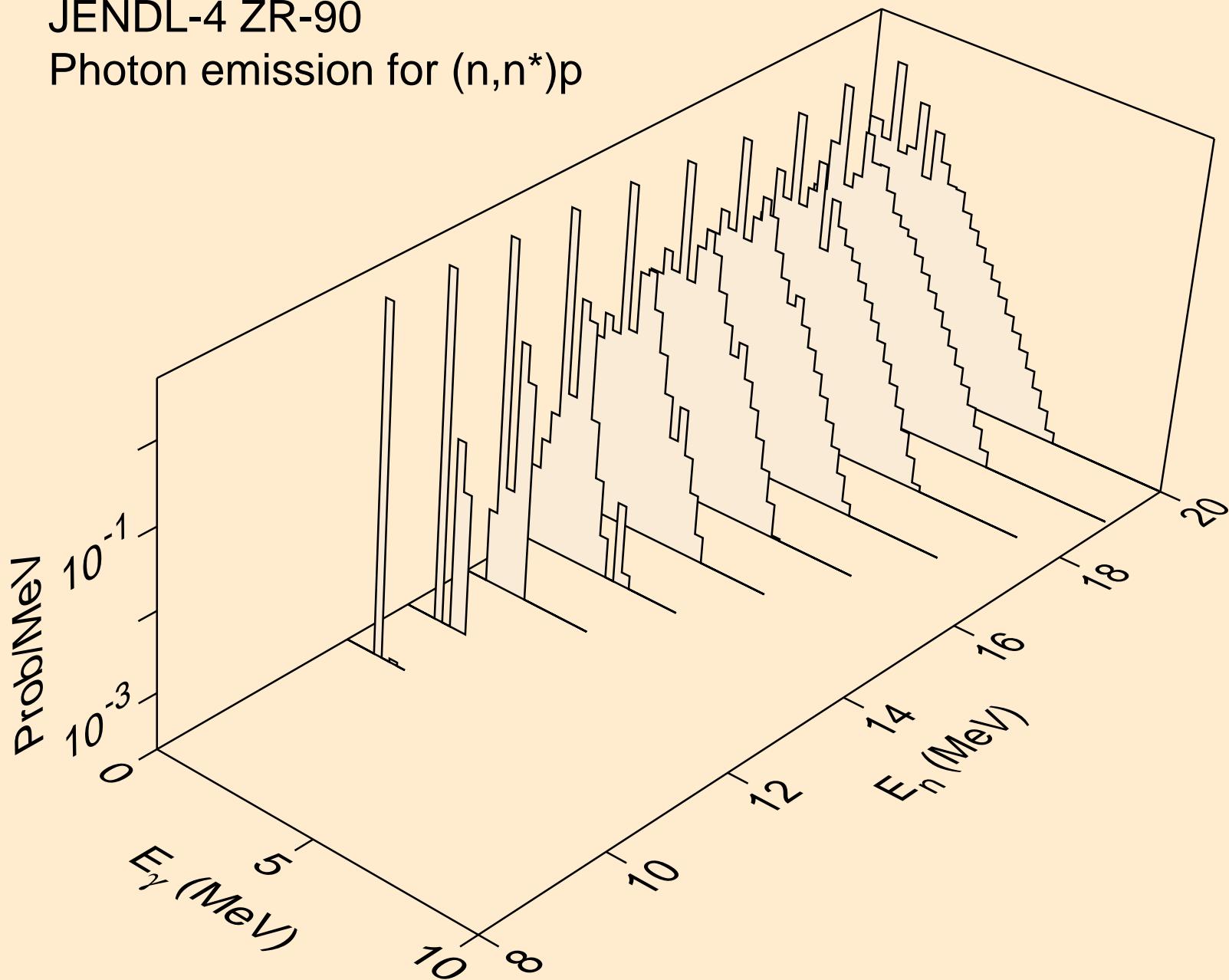
JENDL-4 ZR-90  
Photon emission for ( $n,2n$ )



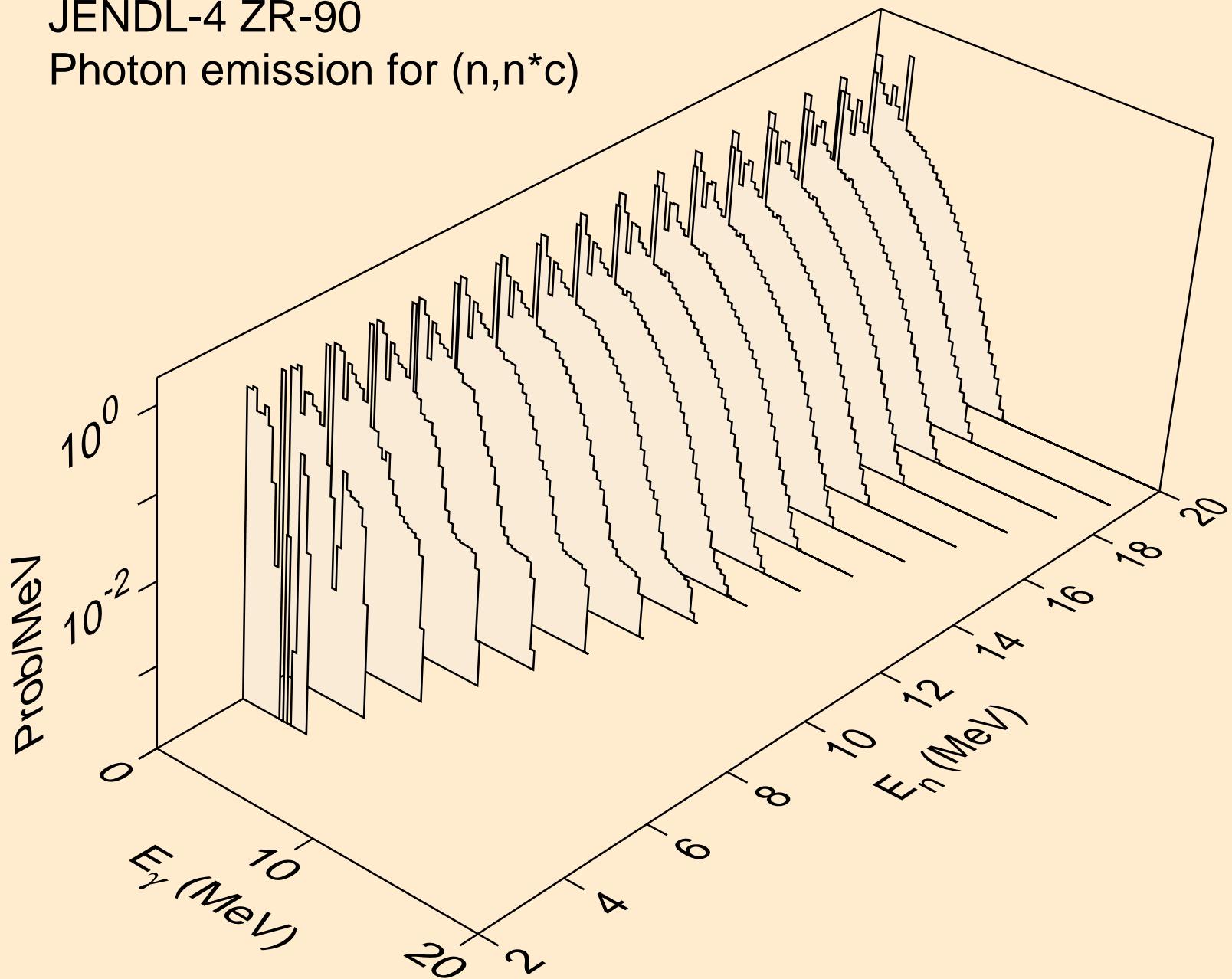
JENDL-4 ZR-90  
Photon emission for  $(n,n^*)a$



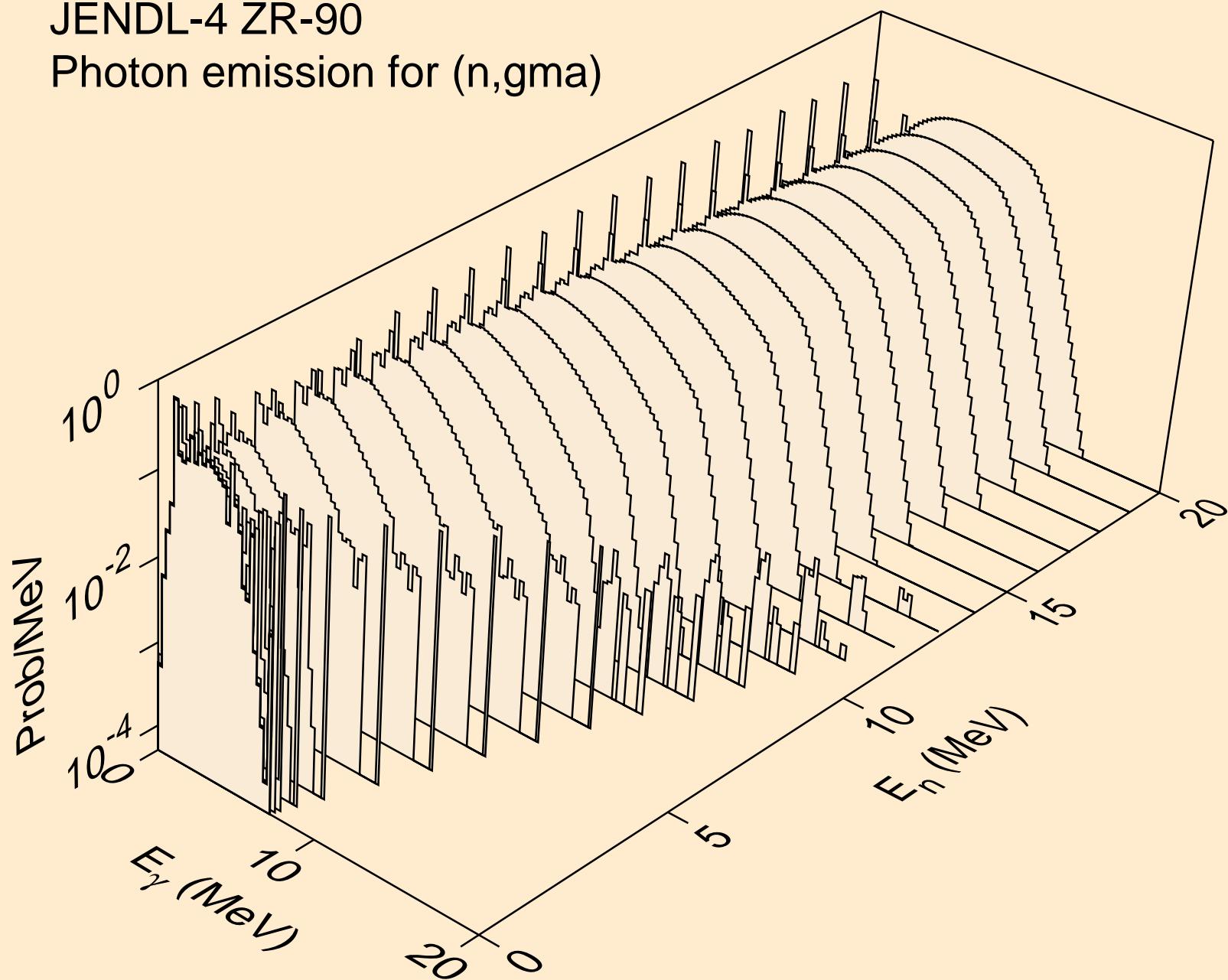
JENDL-4 ZR-90  
Photon emission for  $(n,n^*)p$



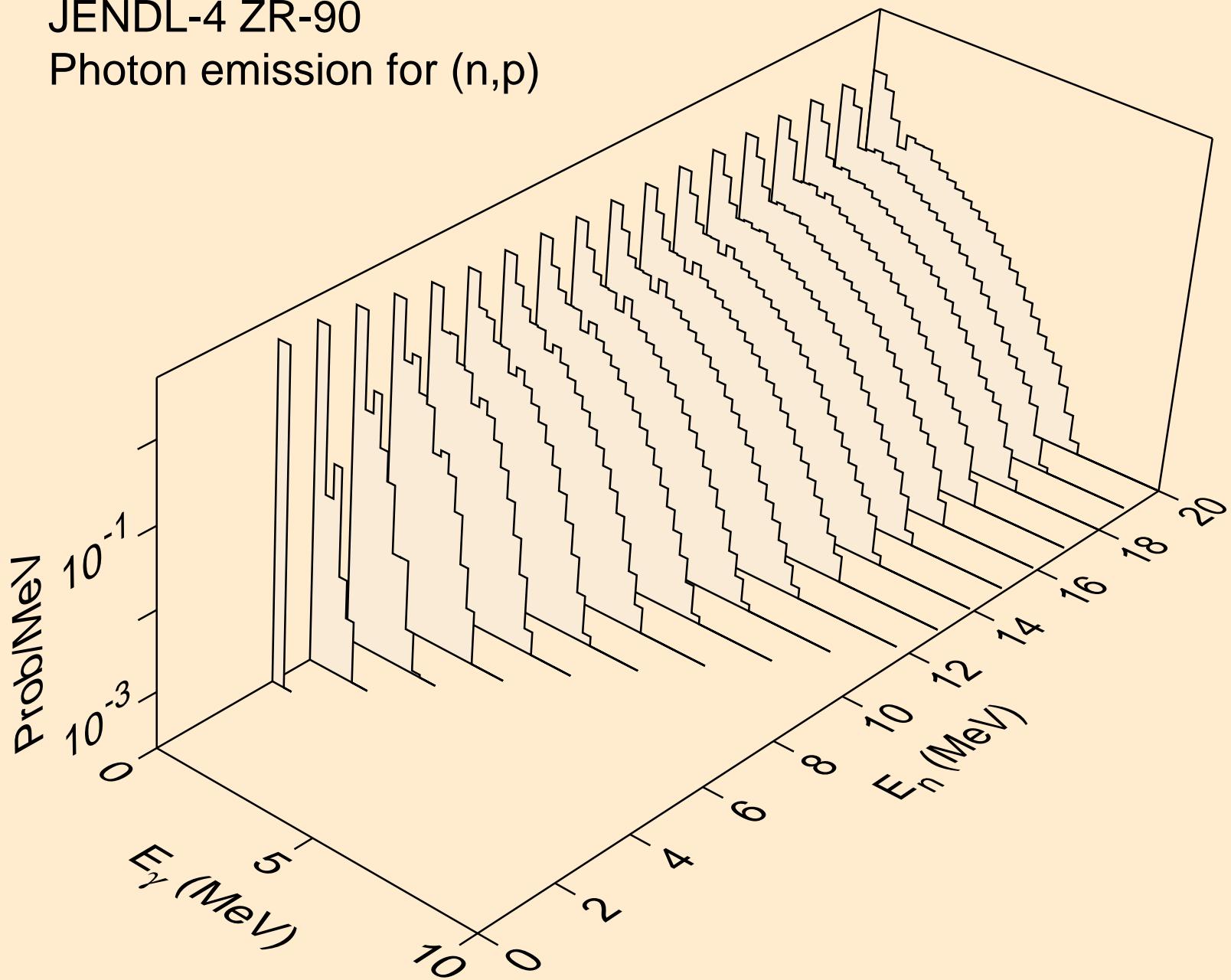
JENDL-4 ZR-90  
Photon emission for  $(n, n^* c)$



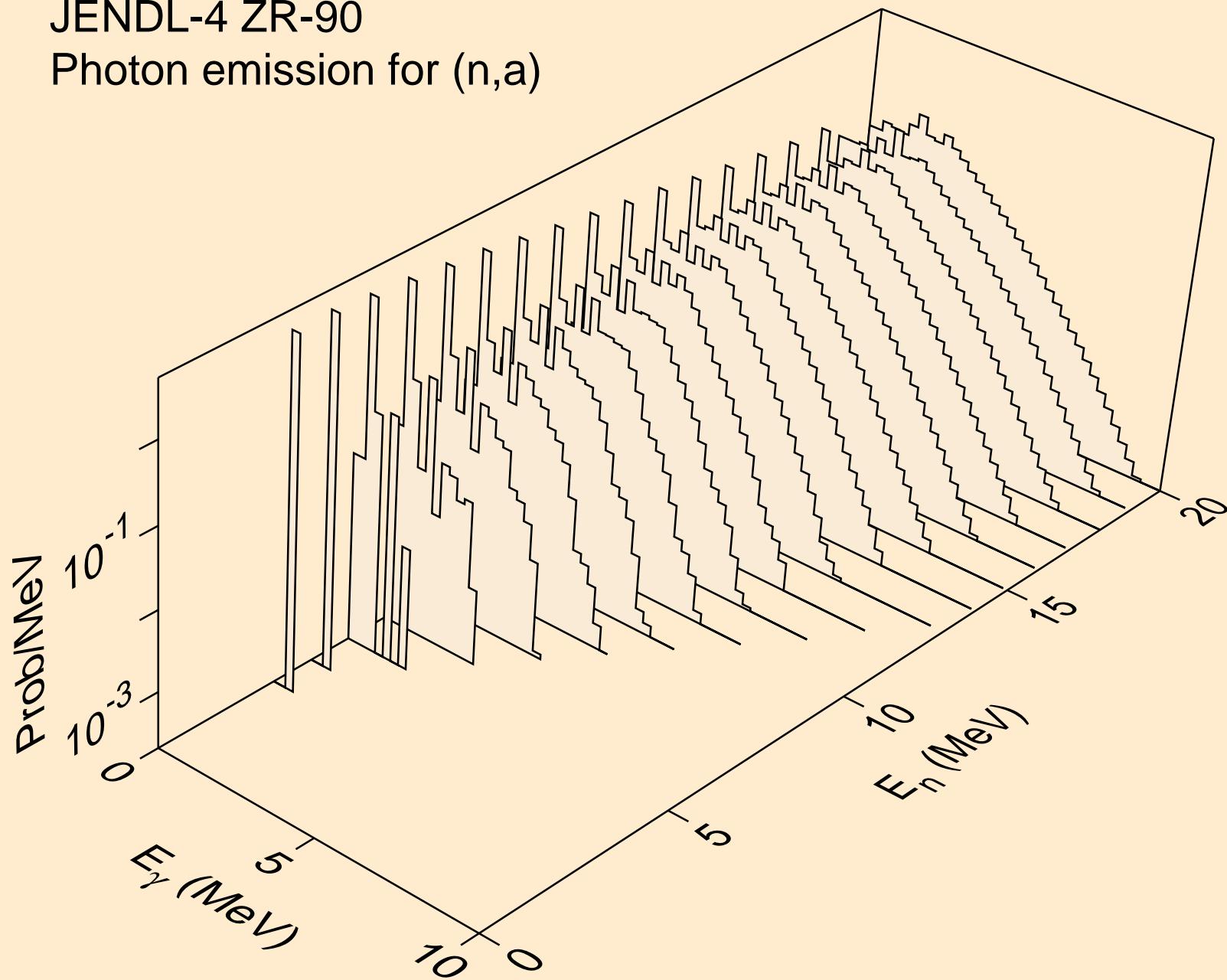
JENDL-4 ZR-90  
Photon emission for (n,gma)



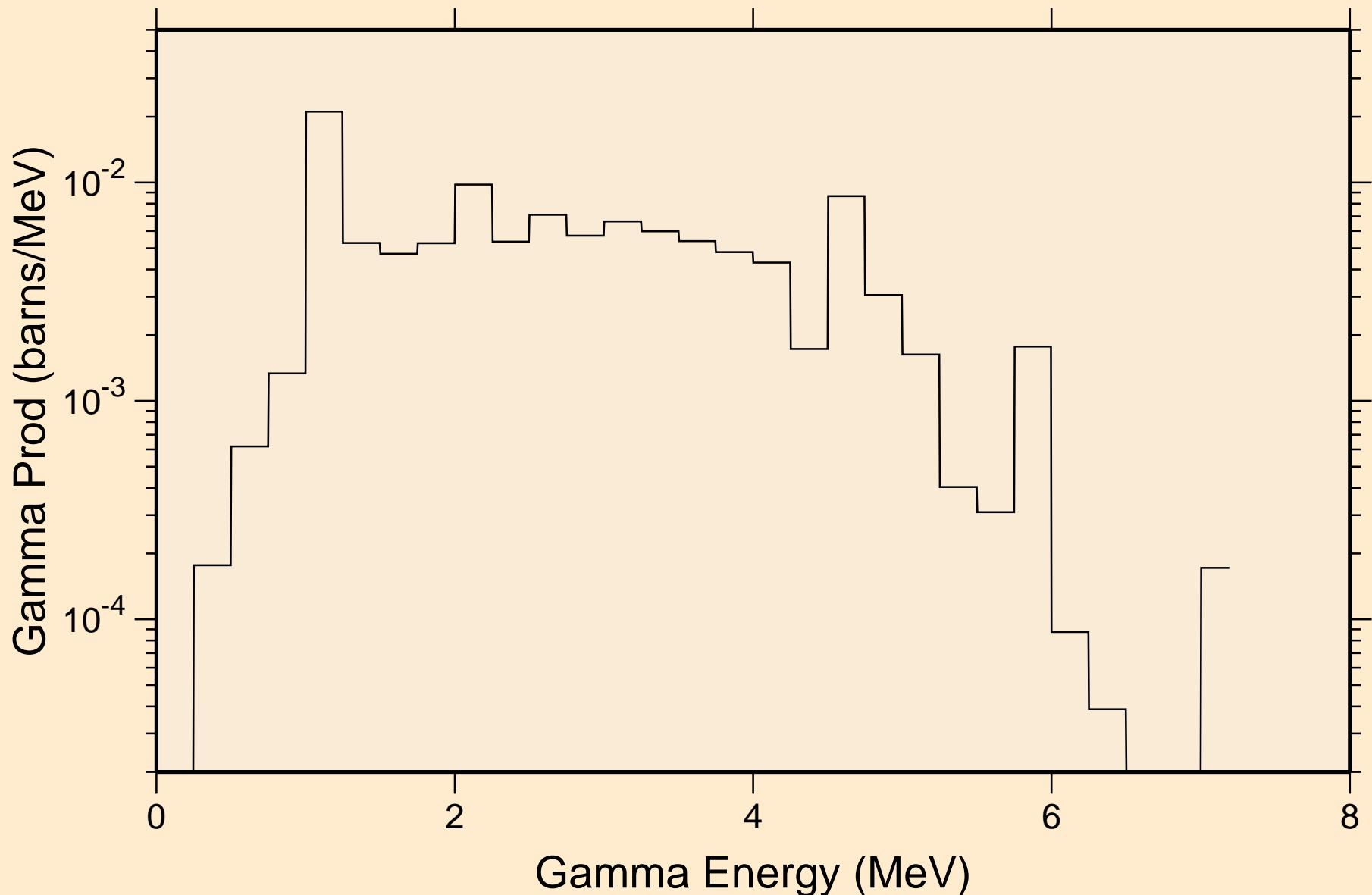
JENDL-4 ZR-90  
Photon emission for (n,p)



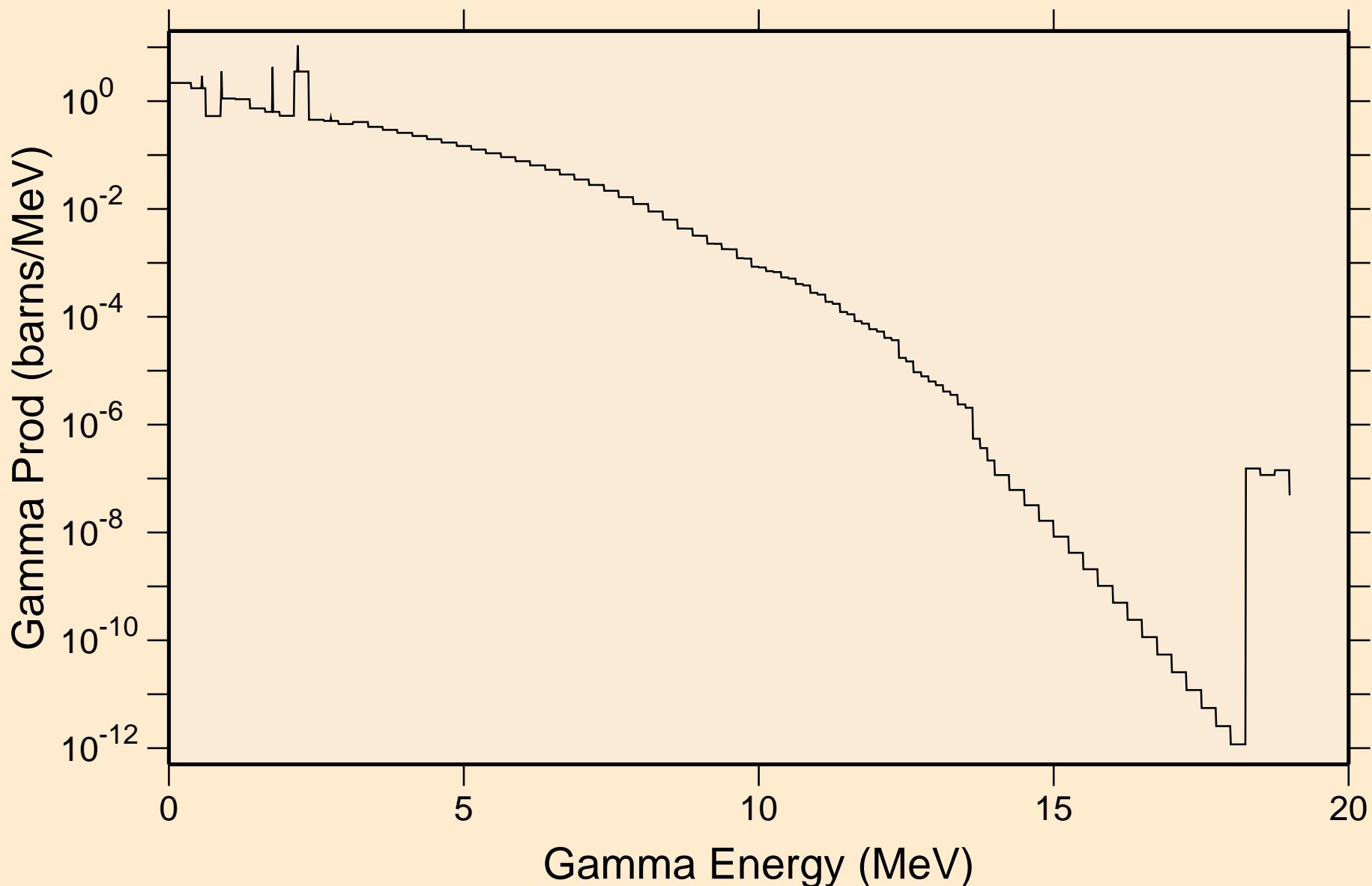
JENDL-4 ZR-90  
Photon emission for (n,a)



JENDL-4 ZR-90  
thermal capture photon spectrum

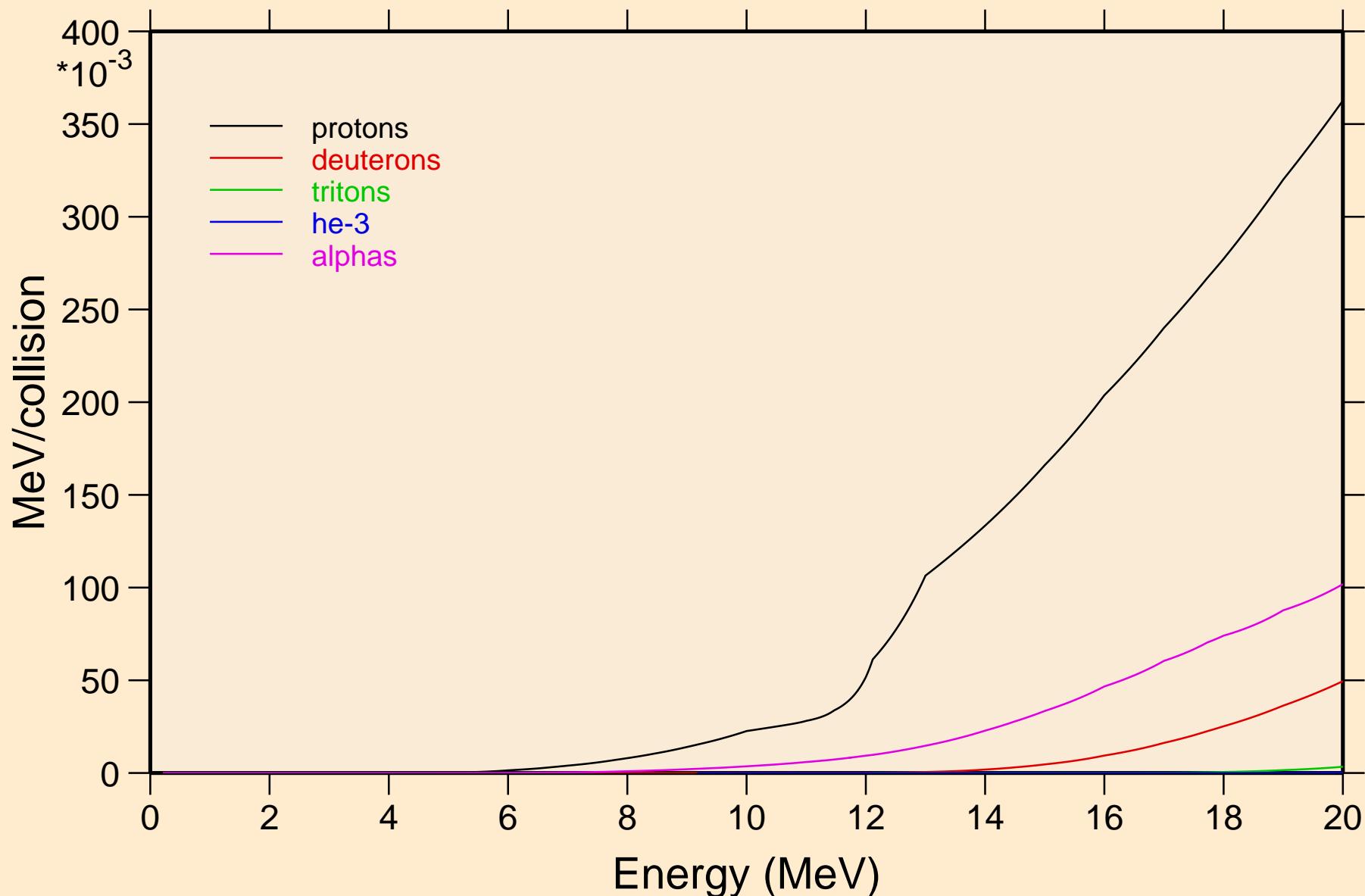


JENDL-4 ZR-90  
14 MeV photon spectrum



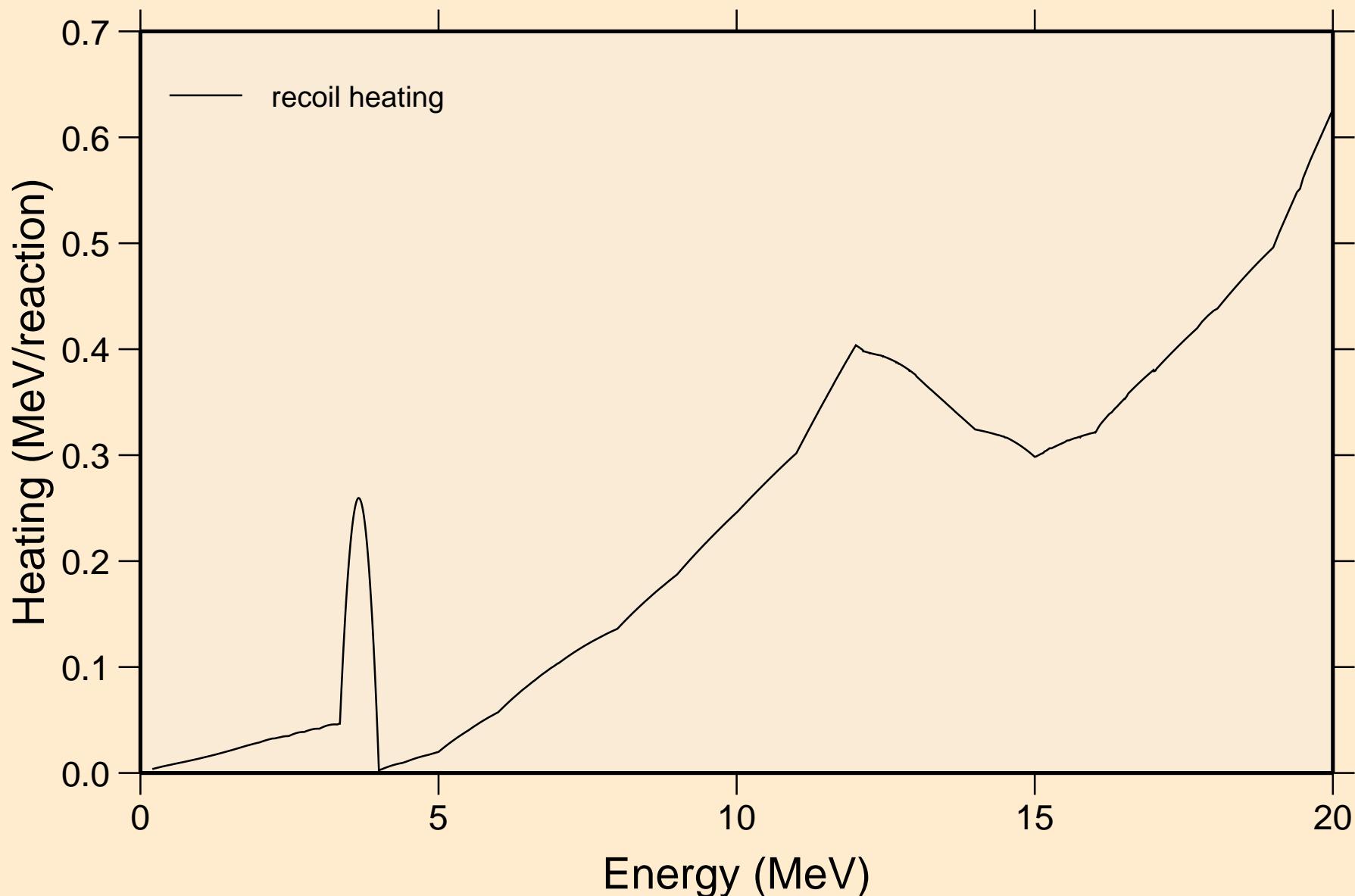
# JENDL-4 ZR-90

## Particle heating contributions



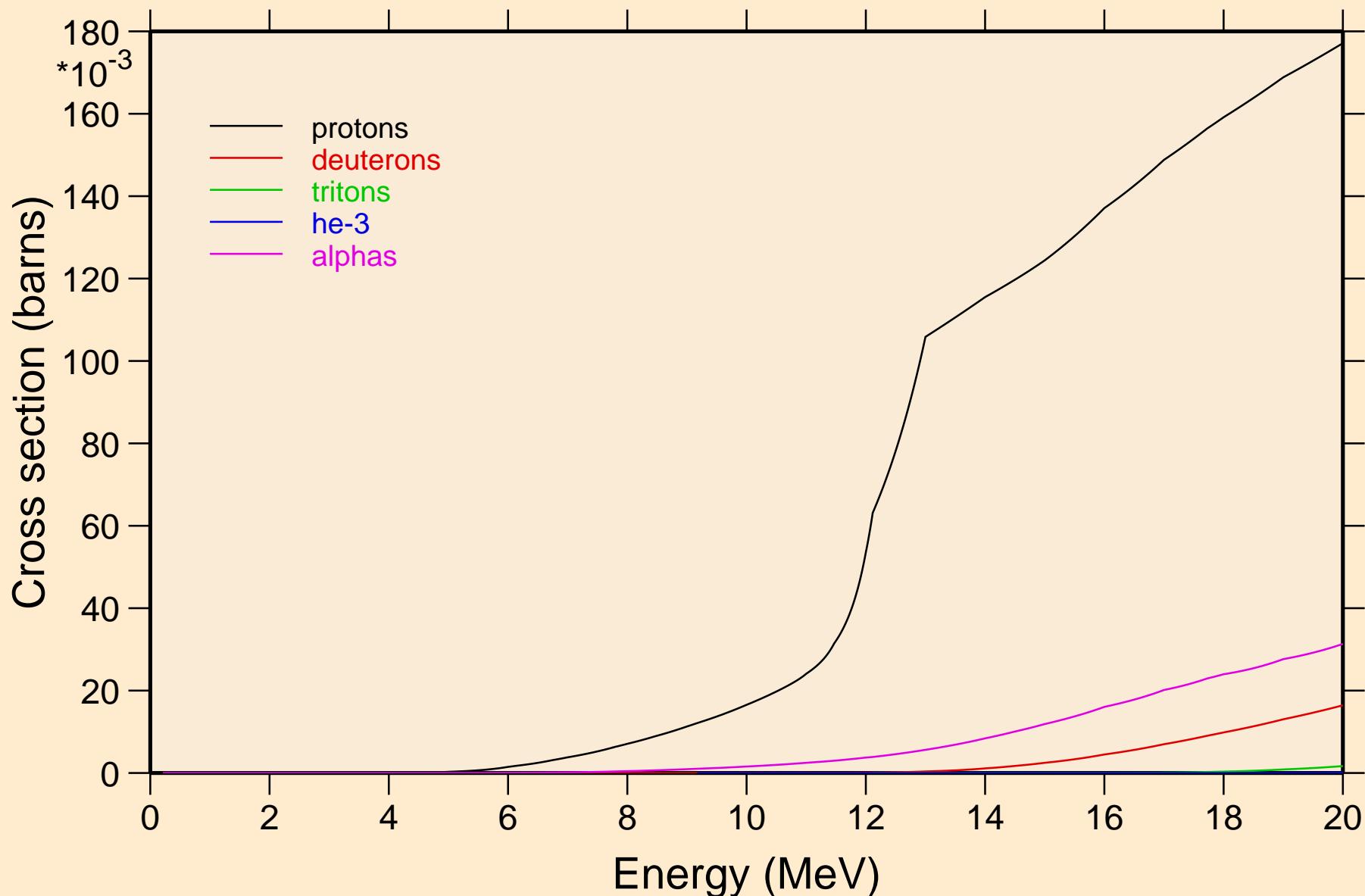
# JENDL-4 ZR-90

## Recoil Heating

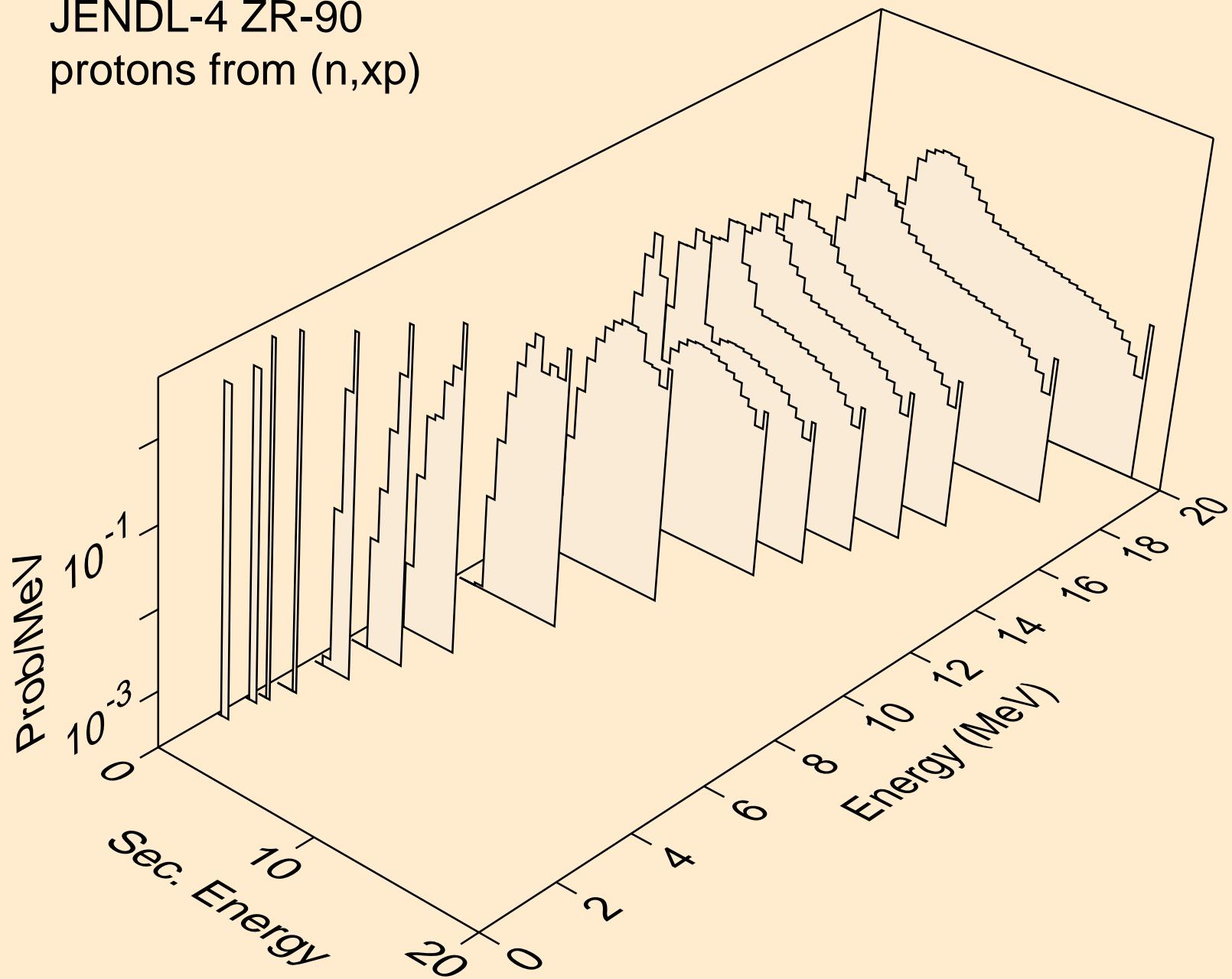


# JENDL-4 ZR-90

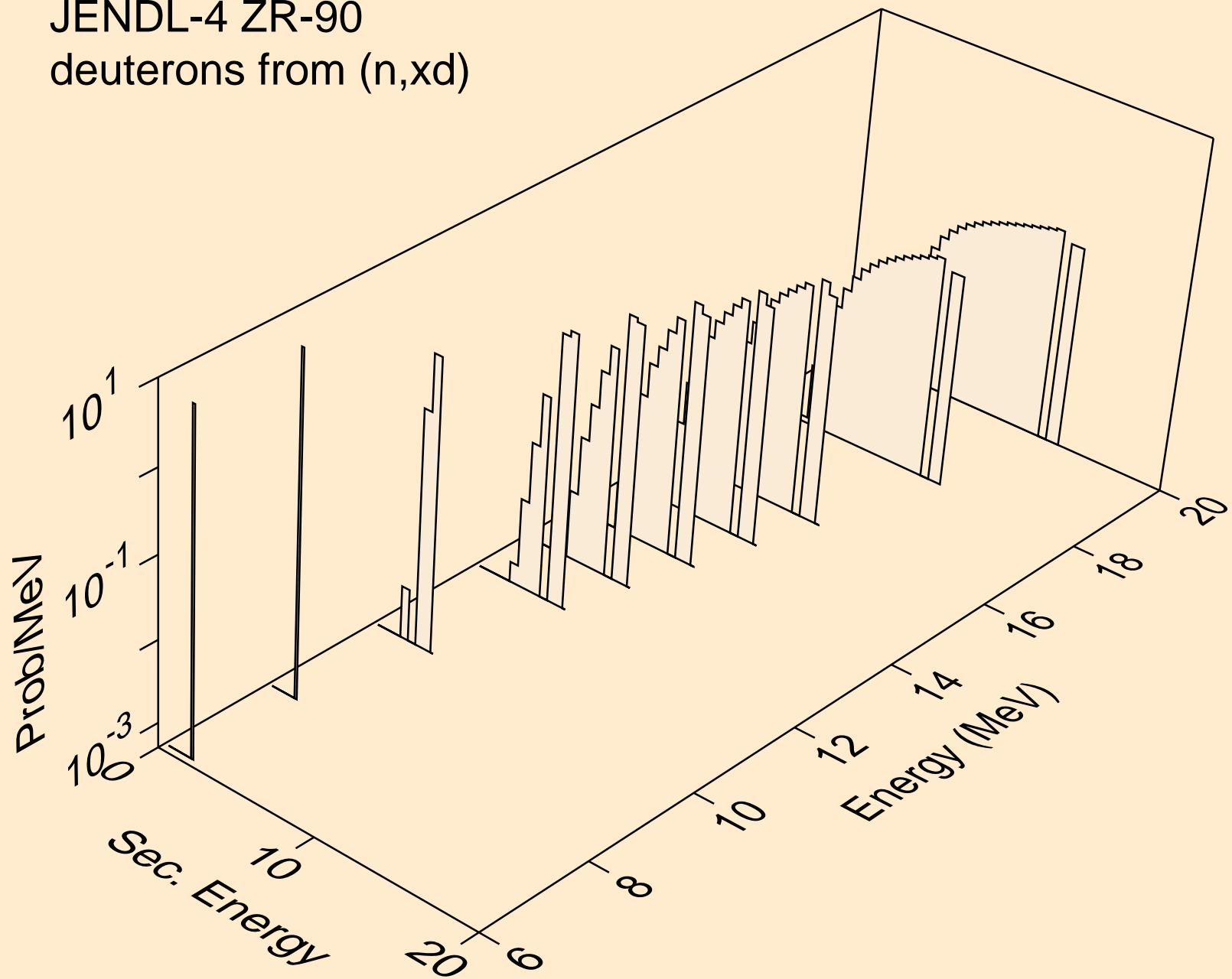
## Particle production cross sections



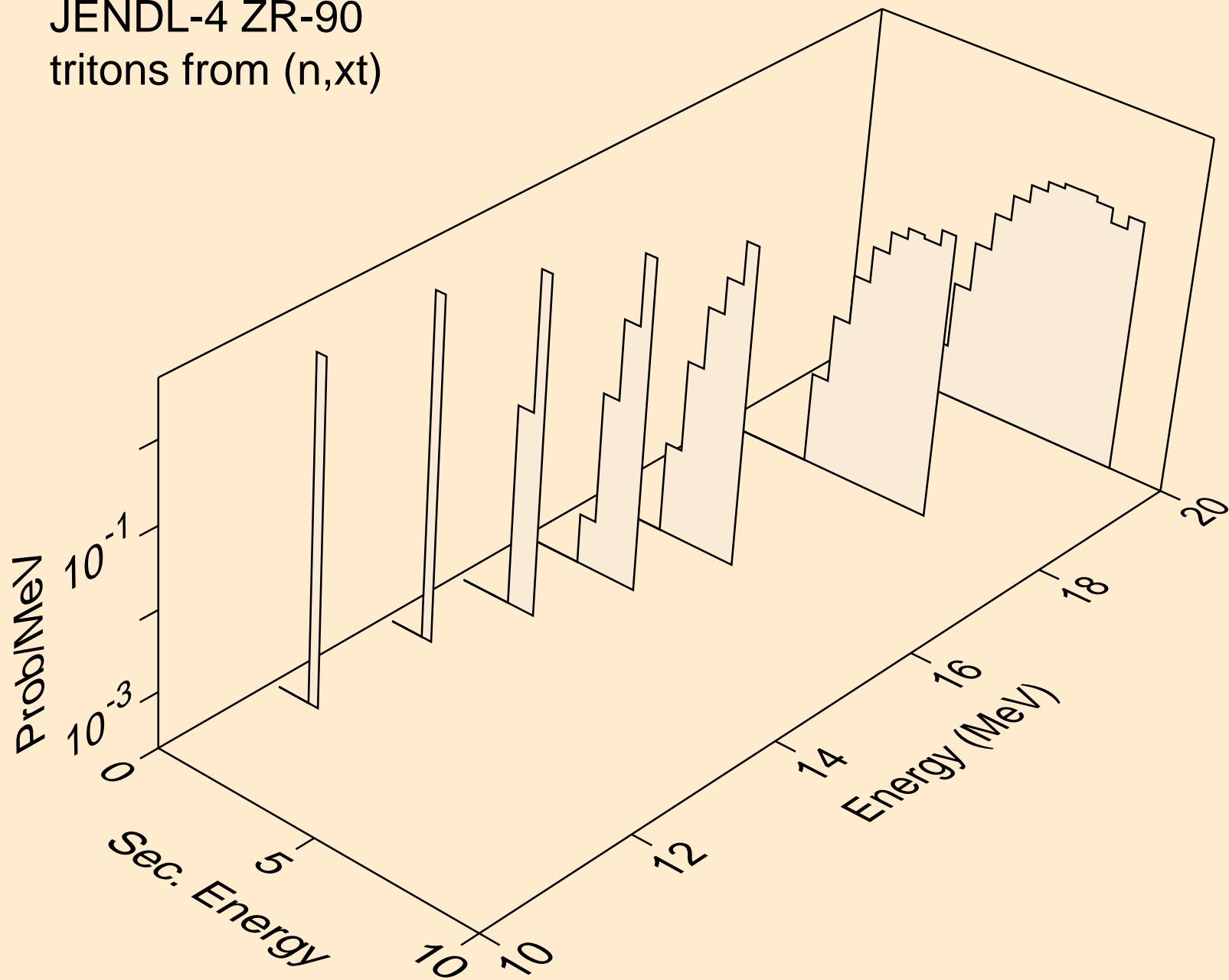
JENDL-4 ZR-90  
protons from ( $n, xp$ )



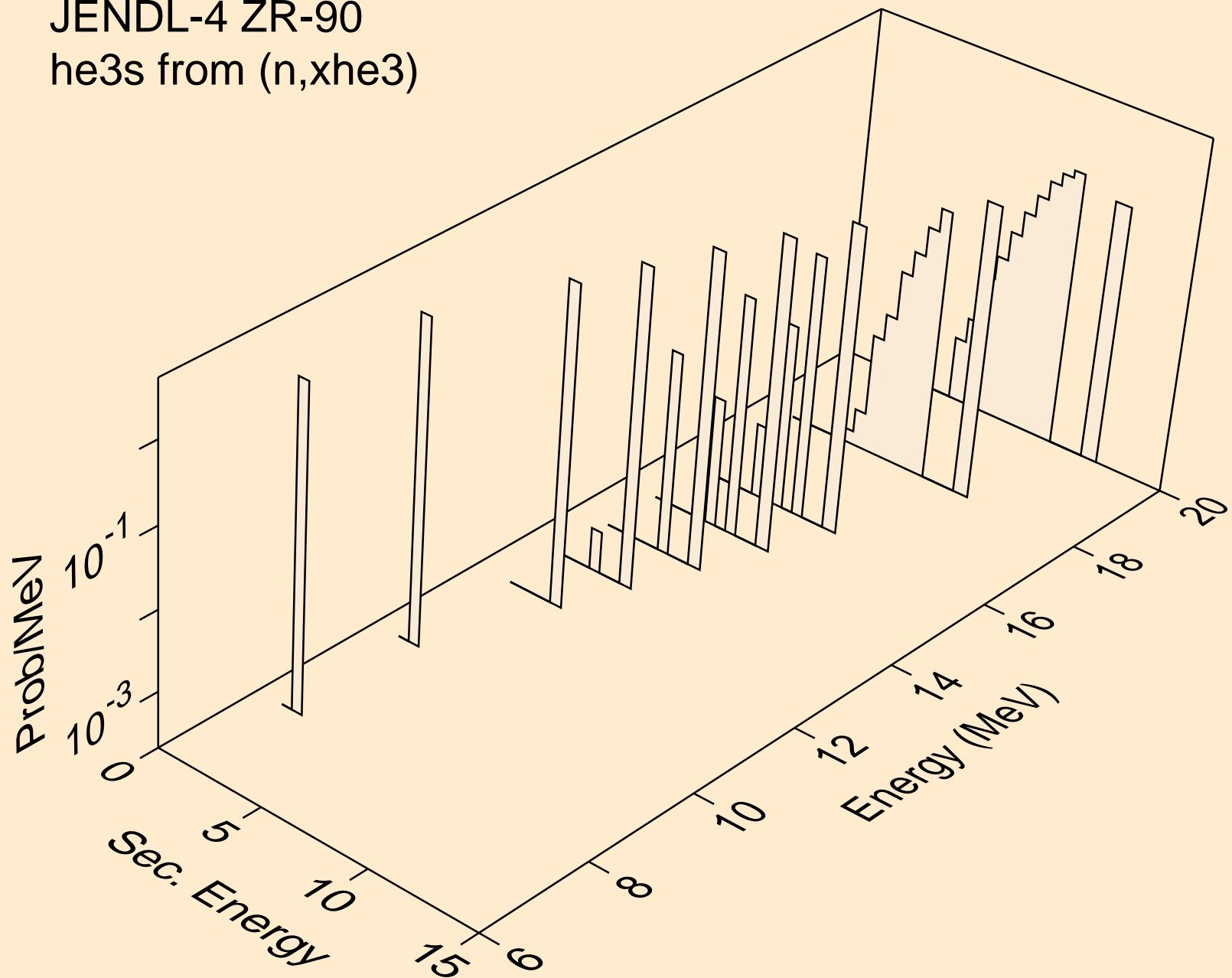
JENDL-4 ZR-90  
deuterons from ( $n, xd$ )



JENDL-4 ZR-90  
tritons from ( $n,xt$ )



JENDL-4 ZR-90  
he3s from ( $n, x\text{he}3$ )



JENDL-4 ZR-90  
alphas from (n,xa)

